Water-Works (Continued)

Tex., Goose Creek—N. L. Nelson, Sour Lake, plans to build water-works system and electric-light plant here.

Okla., Ardmore—City plans to improve water-works system. About $250,000. J. H. Curlock, city engr.

Okla., Henryetta—City defeated $128,000 bonds to build water-works. Noted Oct. 11.

Okla., Okmulgee — City voted $385,000 bonds to improve water-works, including new reservoir, pumping station, etc. Noted Oct. 25.

Colo., Windsor—City having plans prepared for water-works. E. B. House, engr.

Utah, Brigham—City voted $80,000 bonds to rebuild water-works system including new reservoir. F. Y. Jensen, supt. Noted Oct. 4.

Utah, Moab—Town plans to issue $45,500 bonds to build water-works.

Ont., Sault St. Marie—City plans to improve water-works. About $25,000. Van Every, mgr.

Ont., Strathroy—Town soon lets contract pump house and turbine pump for reservoir. About $10,000. Kerry & Chase, Confederation Bldg., Toronto, engrs.

BIDS DESIRED

Miss., Charleston—Until Nov. 20, by J. M. O'Neal, comr. water and light, improving water-works and electric-light systems; including oil engines, pumps, deep well, reservoir, elevated tank, and oil storage facilities. X. A. Kramer, Magnolia, engr. Noted Oct. 11.

O., Euclid—(Official)—Until Nov. 26, by H. S. Dunlop, village clk., building 6 in. water mains in Independence Ave. from St. Clair Ave. to Babbitt Rd.; Chelsea Ave. from St. Clair Ave. to Babbitt Rd.; Naumann Ave. from Gardner to Cut Rd.; Ivan Ave. from Bliss Rd. to Ivan Ave., Nicholas Ave. from Bliss Rd. to Nicholas Ave. F. A. Pease, Marshall Bldg., Cleveland, village engr.

O., Wooster—(Official)—Until Nov. 19, by R. Bruno, city clk. for improving water-works. O. A. Gierow, city engr. Noted Sept. 27.

Ia., Sioux City—(Official)—Until Nov. 10, by City, building North Riverside sewerage system, including pumping station and outfall beds. C. Kloster, clk. T. H. Johnson, city engr.

Man., Winnipeg — (Official) — Until Nov. 10, by Greater Winnipeg Water Dist., supplying portland cement for year 1918. R. D. Wauch, chn. Advertised in this issue.

Man., Winnipeg—By Greater Winnipeg Water Dist. improving water-works as follows:

Nov. 16, gate house and intake at Shoal Lake.

Nov. 26, c.i. gate valves and sluice gates.

Dec. 3, material to be used in pipe line from Red River to McPhillips St. reservoir; also for building pipe line. W. G Chace, ch. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Pa., Phila.—City received lowest bid laying water pipes in Parkway between 22nd and 25th Sts., from E. C. Fish Co., Real Estate Trust Bldg., $36,385.

★Pa., Phila.—(Official)—Springfield Consolidated Water Co. let contract 4,000,000-gal. cross-compound Corliss pumping engine at Pickering Creek Sta., to Allis-Chalmers Mfg. Co., Pennsylvania Bldg.

O., Akron—(Official)—City received low bids Contr. No. 89, laying c.-i. water pipe, from E. & W. McShaffrey, 173 South Forge St., $15,388; T. E. McSchaffrey, 130 South College St., $18,165; Peters-Carpenter Handy Co., Akron, $18,273. Noted Oct. 4.

★Ill., Berwyn—City let contract for water-works improvements in Lawndale Manor to J. W. Harker, 531 North 5th Ave.; Clinton, Harvey and Wenonah Aves., to F. Trinner, 1333 Kenilworth Ave.; Oak Park; Curtis Subdivision and Lombard Aves., to T. H. Inglehart, 209 South La Salle St., Chicago. Noted Oct. 11.

★Kan., Kansas City—City let contract water mains and valves for reservoir, to Arkansas Bridge Co., 1503 Waldheim Bldg., Kansas City, Mo. About $30,000. Noted Aug. 16.

★Kan., Towanda—City let contract for water-works to B. F. Evans, Newton. About $25,000. Noted Sept. 20.

★N. D., Dickinson—City let contract extending water-works and sewerage systems, to C. W. Schruit, Minneapolis, Minn. About $30,000.

★N. D., Langdon—(Official)—City let contract for water-works and sewerage systems, to Haggart Constr. Co., Fargo, $73,358. Noted Oct. 25.

★Tex., Electra—City let contract building reservoir about 4 mi. from here, $90,000,000 gal. capacity; concrete spillway 300 ft. long, to O'Neil Eng. Co., Praetorian Bldg., Dallas.

★Wash., Seattle—City let contract laying c.i. water mains on 10th Ave. and other streets, to Scalzo & Co., 1708 22nd St., $47,327.

★Que., Three Rivers—City let contract building pumping station and concrete reservoir to Nubert, Durge & Arsenault, Three Rivers. Noted Nov. 1.

★Ont., Hamilton—City let contract installing machinery in Beach Pumping Sta., to Turbine Equipment Co., Ltd., Canadian Pacific Ry. Bldg., steam turbine and centrifugal pumps, $75,000; Canadian Westinghouse Co., Ltd., Traders Bank Bldg., 1650 kv.-a. synchronous motor, $16,620; Canadian General Electric Co., Ltd., King and Simcoe Sts., transformers and switchboards, $19,000; Babcock & Wilcox, Ltd., Traders Bank Bldg., 1400 hp. water tube boiler and insulation, $17,555; Allen General Supplies, 205 Yonge St., Venturi meters, $3715. All contractors of Toronto. Noted Oct. 25.

SEWERS

Proposed Work

N. J., Newark—Council passed ordinance to build sewer in Oraton St. between Grafton and Verona Aves. M. R. Sherrard, city engr.

Pa., Duquesne—Council passed ordinance to build sewer in North 6th St. from West Grant Ave. to Hamilton Ave., 1st Ward. J. A. Conlin, boro. clk.

Ga., Stone Mountain—City election Dec. 5 to vote on $15,000 bond issue to build water-works system.

Fla., Perry—City plans to sell $25,000 bonds to extend sewerage system.

Tenn., Knoxville—City soon lets contract extending 3rd creek sewerage system connecting it with laterals of Dale Ave. system. About $12,000. J. B. McCalla, city engr.

Tenn., Morristown — City sold $15,000 bonds to build sewers in south side of city.

O., Akron—City plans to build sewers in Noah St. from Lawton to Maple St.; Maple St. from Noah to Doran St.; Bacon St. from Maple to Peckham St.; Doran St. from Maple to Peckham St.; Little St. from Noah to West St.; West St. from Lawton to Maple St., Garth St. from West to Grace St.; Grace St. from Diagonal Rd. to Maple St.; Adeline St. from South to Crosier St. E. A. Zeisloft, city engr.

O., Marion—City plans to build sanitary sewer in Fairground St. from State to Greenwood St. H. H. Noyes, city engr.

O., Newark—City plans to build sewer in Columbia St. between 10th and 11th Sts. C. H. Wells, city engr.

Ind., Hammond—City soon lets contract for Atchison Ave. sewer. About $105,417. P. J. Lyons, city engr.

Ind., La Fayette—(Official)—City had plans prepared for trunk line sewerage system in 7th Ward; including 7890 ft. 54-90 in. pipe. About $90,000. H. B. Overesch, city engr. Noted Oct. 18.

Mich., Saginaw—City plans to build sewers in Hiland St. from Jefferson to Macaulay Ave. and from Sheridan to Macaulay Ave., Macaulay Ave. from Weber to Hiland St. H. H. Eymer, city engr.

O., Akron—See "Streets and Roads."

Minn., Kinney—(Official)—Village defeated $20,000 bonds to build sewers. Noted Oct. 11.

Mo., St. Joseph—City plans to improve sewerage system in Hyde Park Dist.; including 3 service drains in Dist. No. 40, from 3rd St. north to Haeberle Gardens; Dist. No. 141 begining at 9th and Court Sts., west on Court to 8th St., south on 8th to new storage sewer; also sewer west to 7th St. C. P. Hoff, city engr.

Mo., Springfield—City having plans prepared extending sewers and improving septic tank. About $35,000. O. D. Chrisman, city engr.

Tex., Austin—City plans new election to vote on bond issue to build sewage disposal plant. M. C. Welborn, city engr. Noted Oct. 18.

Tex., Wolf City—City plans to improve water-works, including new pumping plant.

Okla., Guthrie—(Official) — City plans election in January to vote on bond issue to build sewerage and water-works systems. H. P. Cook, comr. pub. utilities. Noted Oct. 25.

Okla., Henryetta—City defeated $32,000 bonds to build storm water sewers. Noted Oct. 11.

Okla., Okmulgee — City voted Oct. 30, $150,000 bonds to improve sewerage system. Noted Oct. 25.

Okla., Quinton—City plans to improve sewerage system.

Idaho, Preston—City election, Nov. 19, to vote on $30,000 bond issue to build sewerage system. J. Johnson, clk.

Cal., Stockton—City having plans prepared by Haviland & Tibbitts, Alaska Commercial Bldg., San Francisco, building sewage disposal and sewage pumping plants.

Ont., St. Catherines—City plans building relief and outlet sewer on Carlton St. About $70,000. W. P. Near, city engr.

Alta., Calgary—City plans to install sewage disposal plant.

BIDS DESIRED

N. Y., New York—(Official)—Until Nov. 16, by M. E. Connolly, boro pres. (Queens Boro), building sewers in portions Pierce, Maspeth, Hayes, Roosevelt, McCormick and Oxford Aves., Dunsing and North Villa Sts., and Sycamore Pl.

N. Y., New York—(Official)—Until Nov. 14, by M. M. Marks, boro. pres., alterations to basins and building inlets in Madison Ave. from 43rd to 46th St.; also building sewer in Cedar St. from Bway. to Trinity Pl.

Pa., Pittsburgh — See "Streets and Roads."

O., Lorain—(Official)—Until Nov. 13, by Dir. Pub. Serv., building sanitary sewers in West 28th St. from Lexington to Oakdale Ave.; Oakdale Ave. from West 27th to West 28th St.; East 26th St. from Elyria to Apple Ave.; Clifton Ave. from East 35th to East 36th St. L. B. Johnston, clk. C. M. Osborn, city engr.

Mich., Highland Park—(Official)—Until Nov. 12, by H. A. Sisson, village clk., building sewers in Goodwin Ave., between Connecticut Ave. and southerly village limits; in alley between Cardoni and Russell Sts.; in Connecticut Ave. from Oakland to Russell Sts., and Russell St. from Connecticut Ave. to alley south of Greenwood Ave.

Wis., Appleton—Until Nov. 17, by E. L. Williams, city clk., building sewer in Adkins St. A. C. Remley, city engr.

Mo., Independence—Until Nov. 23, by City, building sewers in various streets, involving 1585 ft. 8 in. sewer pipe. About $16,000. J. Craig, clk. H. H. Pendleton, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—D. Mathewson, boro. pres. (Bronx Boro.), received low bids Nov. 7, building sewers in (a) Rhinelander Ave. between Hunt and Bronxdale Aves.; Muliner Ave. between Lydig and Rhinelander Aves.; Lydig Ave. between Muliner and Matthews Aves.; Matthews Ave. between Lydig Ave. and Pelham Pkway.; (b) Baisley Ave. between Eastern Blvd. and Ft. Schuyler Rd. (c) Ft. Schuyler Rd., east

Sewers (Continued)

side, between Eastern Blvd. and Puritan Ave., from Anita Constr. Co., 2975 Marion Ave., (a) $271,733; Union Paving Co., 120 Bway., (a) $226,054; A. McBride (b) $23,706; (c) $23,706; E. J. McLaughlin, 337 East 134th St., (b) $25,091; Black & Co., (b) $25,833, (c) $23,361; M. Dimena, 2336 Cambrelling Ave., (c) $37,886. Noted Oct. 25.

★**N. J., Jersey City**—City let contract building sewer in 3rd Ward, to Culligan & Machansky, $20,830.

Pa., Scranton — City received low bids storm sewers on West Market St., from Gibbons & Buckley, $12,101 and J. J. Manley, 325 Adams Ave., $14,094. Noted Oct. 18.

★**O., Cleveland**—Bd. Control let contract installing sewers in East 125th and East 128th Sts., to P. Ciraci; East 127th and East 128th Sts., to Courey Bros. & Co.; East 124th St., to N. Iafornaro. About $20,000.

★**O., Lorain**—(Official)—City let contract sewers in portions Allison and Park Aves., and Lake View Blvd., to T. Trifelli, 319 13th St. About $11,000. Noted Oct. 18.

★**O., Maumee**—See "Streets and Roads."

★**Ia., Grand Mound**—(Official)—Town let contract 2½ mi. sanitary sewers and sewage disposal plant, to R. C. De La Hunt, Cedar Rapids, $17,804. Noted Oct. 25.

★**Ia., Sioux City**—(Official)—City let contract building 2 sanitary sewers to W. B. Carter, Sioux City, 74c. and 75c. per ft. for 8-in. pipe.

Minn., St. Cloud—City received low bids for sewerage system, including 4200 lin.ft. 72-in. segment block and 4000 lin.ft. 36-in. segment block or vitr. pipe, from Paskurete & Co., 511 Lyceum Bldg., $133,217; Comstock & Hanson, Cedar Rapids, Ia., $148,011; Thill, Manning & Wheeling, La Crosse, Wis., $157,872. Noted Oct. 18.

★**Minn., St. Paul**—City let contract furnishing and delivering vitr. clay pipe sewer and specials for high service reservoir, involving 1650 lin.ft. 24-in. double strength vitr. clay sewer pipe and four 24-in. 45 degree double strength vitr. clay bends for material and building sewer on 6th St., to Streator Clay Mfg. Co., Streator, Ill., $1.35 per ft.

★**N. D., Dickinson**—See "Water-Works."

★**N. D., Langdon**—See "Water-Works."

★**Cal., Santa Barbara**—City let contract building intercepting sewerage system, to Magenovitch & Gillespie, 219 Bloom St., Los Angeles, $36,325. Noted Nov. 1.

BRIDGES

Proposed Work

W. Va., Wheeling—City (C. B. Cooke) engr. and West Virginia Traction & Electric Co. (R. D. Jennison, genl. mgr.), Wheeling, plan to build 2 rein.-con. bridges over Wheeling Creek. About $70,000.

Ill., Highland Park—City had plans prepared by C. Russell, engr., Court House, Waukegan, for rein.-con. girder bridge, 5 spans, asphalt macadam surfacing, on North Sheridan Rd. About $25,000. E. A. Warren, clk.

Minn., Grand Rapids—See "Streets and Roads."

Minn., St. Paul—See "Streets and Roads."

Mo., Kansas City—City (C. Hill, engr.), Kansas City Ry., (J. E. Gibson, genl. mgr.), 1500 Grand Ave., and other railroads at 23rd St., plan to build new rein.-con. viaduct to connect with viaduct built to State line by the Kansas side. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, consult. engr.

Okla., Sapulpa—See "Streets and Roads."

Okla., Woodward—See "Streets and Roads."

Wash., Spokane—Spokane Co. Comrs. plans to build new rein.-con. bridge over Spokane River next year. About $34,000.

Que., Montreal—Bd. Control plans to spend $20,000 to repair Lachapelle bridge. P. E. Mercier, city engr.

BIDS DESIRED

Pa., Phila.—See "Streets and Roads."

S. C., Charleston—(Official)—Until Nov. 19 (change of date), by Sanitary & Drainage Comn., Charleston Co., building steel drawbridge and timber approach over Dawboo River. J. W. Marvin, engr.; advertised in this issue. Noted Nov. 1.

Fla., West Palm Beach—(Official)—Until Dec. 4, by Palm Beach Co. Comrs., building 2 steel drawbridges over East Coast Canal. R. F. Goodman, co. engr.; advertised in this issue.

Mo., Bowling Green—Until Nov. 17, by Pike Co., furnishing steel for 9 bridges. About $12,000. C. H. Harris, co. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**O., Troy**—Miami Co. let contract building bridge over Stillwater River, to Rochester Bridge Co., Rochester, Ind., $15,600.

★**Ia., Sioux City**—Sioux City Terminal Ry. let contract building superstructure bridge to Frankman Bros. Bridge & Constr. Co., 911 Metropolitan Life Bldg., Minneapolis, Minn.; substructure to E. A. Whitney, Sioux City. About $27,642.

Minn., Minneapolis—(Official)—City received lowest bid building Waddell direct lift bridge, from Hanlon & Okes, 338 Lumber Ex. Bldg., $122,130.

★**Ark., Little Rock**—See "Streets and Roads."

★**Tex., Dallas**—City let contract building Forest Ave. trestle, to Austin Bros., 18 Coombs St., $12,178. Noted July 5.

★**Colo., Salida**—(Official)—Comrs. Chaffee Co., Buena Vista, and State Highway Comn., Denver, let contract building rein.-con. bridge over Arkansas River, to R. P. McDonald Constr. Co., Denver, $14,700. Noted Oct. 25.

STRUCTURAL STEEL WORK

BIDS DESIRED

S. C., Charleston—See "Bridges."

Fla., West Palm Beach—See "Bridges."

Mo., Bowling Green—See "Bridges."

REINFORCED CONCRETE

Proposed Work

N. Y., Brooklyn—See "Industrial Works."

N. J., Newark—See "Industrial Works."

W. Va., Wheeling—See "Bridges."

Ill., Highland Park—See "Bridges."

Mo., Kansas City—See "Bridges."

Wash., Spokane—See "Bridges."

Cal., Sacramento—See "Industrial Works."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**O., Cincinnati**—See "Industrial Works."

★**Ia., Spirit Lake**—See "Buildings."

★**Colo., Salida**—See Bridges."

★**Wash., Seattle**—See "Industrial Works."

STREETS AND ROADS

Proposed Work

Mass., Boston—City plans to build new roadway from Boylston St. and Commonwealth Ave. through the Fens; also concrete sidewalks on the Common. About $45,000. E. F. Murphy, comr. pub. wks.

N. Y., Buffalo—City Council plans to pave Wyoming Ave., Troy and Glendhu Pl., and 4th, Glenn and Georgetown Sts., asphalt on concrete foundation. G. H. Norton, city engr.

N. J., Camden—City Council plans to pave Liberty St., from 9th to 10th St., 9th St. from Kaighn to Atlantic Ave., Bradley Ave. from Kenwood to Greenwood Ave., sheet asphalt on concrete foundation. L. E. Farnham, city engr.

N. J., Haledon—Boro. Council plans to widen and improve Haledon Ave.

N. J., Jersey City—(Official)—City received no bids repaving Hopkins Ave., brick. Noted Sept. 13.

Pa., Greensburg — Westmoreland Co. plans to build concrete road from New Kensington to Leechburg with State aid. About $300,000.

N. C., Asheville—City plans to pave Cherokee and Victoria Rds., also College and West Haywood Sts. B. M. Lee, city engr.

Georgia—State Highway Comn., Atlanta, plans to improve with Federal aid Bacon and Brooks Cos.: Walton-Oconee Co. Highway; Hull-Lumpkin Highway. About $270,000.

Ga., Nashville—City election Dec. 11 to vote on $18,000 bond issue to pave streets.

Fla., Perry—City receives bids about Dec. 1 improving streets, asphalt on macadam base. About 75,000. Noted July 12.

Fla., Tallahassee—Leon Co. Comrs. rejected bids building 6 mi. Woodville Rd. New bids. B. E. Reed, co. engr. Noted Oct. 25.

Ala., Union Springs—Bullock Co. plans to build road from Union Springs to Montgomery Co. line, 8 mi. Cost, $23,733. County to pay ¼, State ¼ and Federal Government, ½ of cost.

Miss., Monticello—Lawrence Co. soon lets contract improving and graveling highways.

La., Thibodaux—Lafourche Parish, Rd., Dist. No. 3, at recent election, voted $50,000 bond issue for road improvements. Noted Sept. 27.

Ky., Louisville—Jefferson Co. plans to build Edwardsville-Georgetown Highway, 8586 ft. long. About $10,975.

Ky., Owenboro—Fiscal Court Davies Co. rescinded contracts awarded Sept. 18, building Hardinsburg, Ware, Livermore, Henderson, Grave Lane, Boonsville, Curdsville, and Pleasant Valley Rds., as prices were too high. About $117,789. Work will be readvertised. Noted Oct. 4.

O., Akron—Council passed ordinance to grade, pave, build sidewalks, curbs, and sewers in Bowery St. from Thornton to South St.; East Ave., from Wooster Ave. to Maple St.; West North St. from Howard St. to Northern Ohio R.R. E. A. Zeisloft, city engr.

O., Cincinnati—Hamilton Co. had plans prepared improving Montauk Rd. Cost as follows: concrete, $84,072, asphaltic concrete, $94,101, warrenite, $98,173.

O., Columbus—City plans to issue $100,000 bonds to build streets and alleys in outlying sections of city. H. Maetzel, city engr.

O., Elyria—City sold $18,000 bonds for road work. C. M. Theobold, city engr.

O., Sidney—City sold $214,700 bonds for paving streets. T. Blake, city engr.

O., Springfield—City Council passed resolution to improve and pave portions Chestnut and Columbia Sts. M. J. Bahin, city engr.

Mich., Bessemer—Gogebic Co. plans to spend $78,000 to improve roads in 1918.

Mich., Wyandotte—City having plans prepared by M. L. Brown & Son, engrs., 819 Chamber Commerce Bldg., Detroit, building rein.-con. and cement pavements. About $150,000. C. Block, city clk.

Ill., Rockford—(Official)—Winnebago Co. voted $145,000 bond issue to build 6½ mi. permanent road from Rockford to Cherry Valley. Bids for work will be received in March. Noted Oct. 11

Wis., Lancaster—Grand Co. plans to build and improve state trunk line and county roads. About $54,000 available.

Ia., Ida Grove—City Council passed resolution to pave 30 blocks. K. C. Gaynor, Sioux City, engr.

Ia., Winterset—Madison Co. plans election, Nov. 20, to vote on $500,000 bond issue for road work.

Minn., Anoka—Anoka Co. plans to build road from city limits of Minneapolis to Elk River, about 23 mi., with State aid. About $90,000.

Minn., Grand Rapids—Itasca Co. plans to spend $88,000 for road and bridge work.

Minn., Minneapolis—City plans to improve Drew Ave. from 40th to 44th St.; 51st St. from 34th to 42nd St.; 38th Ave. from 50th to 54th St.; 39th St. from 50th to 54th St.; 40th Ave. from 49th to 54th St.; 41st Ave. from 49th to 54th St.; 42nd Ave. from 49th to 54th St.; widening and opening 47th St. from Chicago to Nicollet

Streets and Roads (Continued)

Ave.; also from 28th to 46th Aves.; 34th St. from 28th to 34th St.; 31st from 25th to 31st St.; 38th Ave. from 31st to 32nd St.; 41st Ave. from Dorman Ave. to 32nd St.; 47th St. from Beard to France Ave.; 32nd Ave. S. from Hiawatha to 47th St.; 47th St. from 34th to Minnehaha Creek; Vincent Ave. from 52nd to 53rd Sts. Total cost about $40,650. F. W. Cappelin, city engr.

Minn., St. Paul—Ramsey Co. receives bids about January to grade, gravel and surface roads and build culverts. About $80,000. G. J. Ries, co. aud.

Minn., St. Paul—(Official)—City received no bids improving portions Mount Curve Blvd., Roblyn Park, alley in Block 3, Carbon St., Folsom and Como Aves. Noted Oct. 25.

Kan., Beloit—City passed resolution to pave Hersey and Lincoln Aves. and Chestnut, 3rd and Court Sts. C. R. Herrick, city clk.

Kan., Minneapolis—Ottawa Co. Comrs. plan election Dec. 4 to vote on $400,000 bond issue for road improvements and new jail.

Kan., Topeka—Shawnee Co. having plans prepared paving West 10th St. 2 mi. west from city limits, asphaltic concrete. About $32,000. Kenneth Raub, clk.

Mo., Greenfield—Dade Co. voted $28,000 bonds issue for roads in Everton Special Rd. Dist. Noted Oct. 25.

Mo., Independence—City plans paving and grading various streets; about $15,000, also grading, fencing, building walks and driveways in cemetery addition, 20,000 yd. H. H. Pendleton, city engr.

Mo., Springfield—City plans to improve Grand Ave. from Jefferson St. to Holland Ave. O. D. Christman, city engr.

Arkansas—State Highway Comn., Little Rock, had plans prepared paving road from Van Buren to Fayetteville, 58 mi., in Prairie Co.; Hazen to Watsons Bridge, 7 mi., $48,000, in Hempstead Co., 13 mi., gravel, $76,000.

Texas — Guadalupe, Gonzales, Fayette, Colorado, Austin, and Fort Bend Cos. plan election Dec. 18 to vote on $8,000,000 bond issue to build road between San Antonio and Houston, 16 ft. wide, bituminous, 230 mi. Address Co. Clk., Belleville.

Tex., Burnet—(Official)—Burnet Co. defeated $100,000 bonds to build roads in Precinct No. 4. Noted Oct. 4.

Tex., Canyon—Randell Co. Comrs. plan election, Nov. 24, to vote on $50,000 bond issue for road work.

Tex., Center—Shelby Co. voted $600,000 bond issue for road work. R. H. McCaully, clk. Noted Aug. 2.

Tex., Dallas—(Official)—Dallas Co. received no bids grading and graveling portion Rowlette Rd.; also resurfacing portion Seagoville Rd. C. E. Gross, co. aud. Noted Oct. 18.

Tex., Dallas—City rescinded contract let Sept. 14 to Bramley-Lanham Paving Co., Dallas, paving Knight St.; also rejected bids for paving Woodlawn St. from Fitzhugh to Bank St., Washington St. from Main to Worth St., and Beckley St. from 10th St. to city limits. Noted Sept. 27.

Tex., El Paso—(Official)—City voted on $100,000 bond issue to pave street intersections. B. M. Williams, city engr. Noted Oct. 18.

Tex., Madisonville—Madison Co., Precinct No. 1, plans election Nov. 19 to vote on $100,000 bonds issue to build 2 state and national highways.

Tex., Tahoka—Lynn Co. Comrs. plan election, Nov. 20, to vote on $60,000 bond issue for road work.

Tex., Texarkana—City plans paving Olive St. from 4th to 19th St. C. E. Hayden, city engr.

Tex., Vernon — Wilbarger Co. election Nov. 15 to vote on $115,000 bond issue to build roads in Dist. No. 1.

Okla., Hugo—Choctaw Co. defeated $50,000 bonds to build roads in Wilson Twp. Noted Oct. 4.

Okla., Sapulpa—Creek Co. voted $80,000 bonds to build roads and bridges. Noted Oct. 4.

Okla., Woodward—Woodward Co. election Nov. 17 to vote on $675,000 bond issue to build roads and bridges.

Idaho, Bonners Ferry—(Official)—Boundary Co. received no bids for grading and building small bridges. Work postponed until next spring. J. V. Stanley, co. clk. Noted Oct. 11.

Wash., Clarkston—City plans to pave several streets and lay sidewalks.

Wash., Seattle—City had plans prepared grading and paving Delaware Dr., and Maple Pl., cost, $25,000; 9th Ave., S., $100,000; Gilman Ave. and West 71st St., $15,000. A. H. Dimock, city engr.

Oregon—State Highway Comn., Salem, had plans prepared improving Ococho and Canyon Creek Rd., Crook Co., from proposed dam of Ococho Irrigation Dist. to Wheeler Co. line; about $40,000. Also road from Baker to Cornucopia, 70 mi.

Cal., Monrovia—City plans to pave White Oak Ave. from west city limits to Mayflower Ave.

Cal., Richmond—City having plans prepared paving streets in Canal Subdivision, concrete. H. D. Chapman, city engr.

Cal., Susanville — Lassen Co. voted to form boulevard district out of Supervisorial Dists. Nos. 1, 2 and 3, to build road to connect with Reno, Nevada. About $120,000. State to appropriate $60,000 toward cost. Noted Sept. 20.

Ont., St. Catherines—City Council plans to improve and widen Great Western St. from St. Paul St., W., to Grand Trunk Sta. About $12,500. J. A. Pay, city clk.

Man., Oakland—Council plans to build 60 mi. highway. W. T. Johnson, Wawanesa, clk.

Man., Sifton—Council plans to build 40 mi. highways. R. H. Hockin, Oak Lake, clk.

Man., Westbourne—City plans election to vote on bond issue to build 310 mi. gravel highway. P. McGregor, Gladstone, clk.

Bids Desired

N. Y., Wingdale—(Official)—Until Nov. 15, by Comn. on New Prisons, Hall of Records Bldg., Centre and Chambers Sts., New York City, grading at Wingdale Prison; advertised in this issue.

N. J., New Brunswick—Until Nov. 19, by Bd. Freeholders, Middlesex Co., paving of Sect. 1, River Rd., in Piscataway and Highland Park, 39,342 sq.yd., warrenite on macadam foundation. A. B. Fox, co. engr.

Pa., Phila.—(Official)—Until Nov. 14, by G. E. Datesman, dir. pub. serv., grading Weikal St. from Ann to Monmouth St., Janney St. from Ann to Cambria St., Monmouth St. from Tulip to Janney St., Front St. from Nicetown Lane to Wingohocking St.; also building portion of Pkway. from 17th to Race St.; dredging creek in 40th Ward, and repairing bridges. About $100,000. C. E. Albright, city engr. Noted Apr. 19.

Pa., Pittsburgh—(Official)—Until Nov. 12, by City, grading, paving and curbing Albert St. from Ruth to Westwood St.; Cresson St. from Bailey Ave. to Eureka St.; Eureka St. from Beltzhoover Ave. to Estella St.; Lafferty Ave. from Montooth to Gearing St.; Westwood St. from Albert to Walden St.; Warrington Ave. from Montooth St. to West Liberty Ave.; also Addis, Benitz, Osric, Vose and Culloden Ways; 15 in. T. C. pipe sewers on Murray Ave., and 8 in. pipe sewer on property of Pittsburgh Ry. Co. and Mango Way. R. Swan, city engr.

W. Va., Charleston—Until Nov. 24, by Kanawha Co., improving section Giles, Fayette and Kanawha Turnpikes; including 43,747 cu.yd. unclassified material, 1726 cu.yd. concrete; 16,400 lb. reinforcement; 774 ft. 12 in. and 162 ft. 18 in. culvert pipe; brick, concrete, asphaltic concrete or penetration macadam. L. C. Massey, co. clk.

Ala., Enterprise—Until Nov. 15, by W. B. Glenn, mayor, paving several streets, vitr. brick, cement-concrete, bituminous-concrete, macadam or wood block; including 12,000 sq.yd. paving and sidewalks. A. Pew, Forsyth Bldg., Atlanta, Ga., engr. Noted May 24.

Ala., Tuscumbia—Until Dec. 4, by Colbert Co., improving 7.02 mi. Jackson Highway; including 16,132 cu.yd. earth excav.; 9650 cu.yd. gravel, 2850 cu.yd. chert; 11,215 sq.yd. bituminous treatment; 44 cu.yd. concrete; 84 lin.ft. D.S. vitr. pipe.

Ky., Lebanon—Until Nov. 12, by Marion Co., building 5½ mi. inter-county road from here to Bardstown, beginning at Smocks Chapel and extending to Nelson Co. line. S. J. Spalding, co. clk.

Indiana—By Co. Comrs. building roads as follows:

Nov. 15: Madison Co., Anderson; building 16,006 ft. gravel, stone or macadam road on line between Madison and Delaware Cos. E. T. Flahavin, aud.

Nov. 17: Floyd Co., New Albany; building 8568 ft. road, Georgetown Twp. E. Dupaquier, aud.

Minn., St. Paul—(Official)—Until Nov. 12 by H. W. Austin, purch. agt., grading East and West Alley in Howard Park addition, Lake Como and Phalen Aves., from Rice St. to Western Ave.; Marion St. from Lake Como to Phalen Ave.; Cleveland Ave. from Commonwealth Ave. to Scudder St.; Scudder St. from Cleveland to Raymond Ave.; Lake Como and Phalen Ave. between Arcade and Forest Sts.; alley in Williams Rearrangement of Block 3; Hamline Ave. from Nebraska to Hoyt Aves.; May Ave. from West 7th to Alaska Sts.; also surfacing with asphalt; Wabash St. from 4th to 5th Sts. O. Claussen, city engr. Noted Oct. 18.

Arkansas—(Official)—Until Nov. 15, by State Highway Comrs., Little Rock, building 42 mi. gravel, concrete and asphalt macadam roads. Petersen & Marshall, Texarkana, engrs. Advertised in this issue.

Colorado—Until Nov. 10, by State Highway Comn., Denver, building Sec. 1 and 2 Fall River Rd. between Fall River and Hilner Pass. Larimer Co.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract building artificial stone sidewalks upon the Strandway from Head House at Marino Park to point opposite Mosquito Fleet Yacht Club, South Boston, to J. L. Pierce, Boston, $13,668.

★**Mass., Boston** — (Roxbury)—(Official)—City let contract building bituminous macadam roads and retaining walls in Pontiac St. from Tremont to Hillside Sts., to J. C. Coleman & Sons Co., 1620 Tremont St., Roxbury, $19,647. Noted Oct. 25.

Rhode Island—State Bd. Pub. Rds., Providence, received low bids, Oct. 26, building section state highway in South Kingstown from Perrine & Cadarino, Boston, Mass., $62,660; J. Bristow, Narragansett Pier, $71,377. T. Murphy, Keene, N. H., $72,537. Noted Oct. 18.

★**Connecticut** — State Highway Comn., Hartford, let contract building portion Pond Rd., Cromwell Twp., 3900 lin.ft. 2 in. bituminous macadam, to F. Arrigoni & Bro., 605 Main St., Middletown. About $15,000. Noted Oct. 18.

★**N. Y., Buffalo**—Bd. Pub. Wks. let contract paving Northampton St. from Main St. to Humboldt Pway., 28 ft. wide, asphalt on concrete base, to German Rock Asphalt Co., Morgan Bldg. About $67,960.

★**N. Y., Phœnix**—Village let contract 1000 ft. brick paving, to A. J. Colins, Oswego, $10,433.

★**Pennsylvania**—(Official) — State Highway Comn., Harrisburg, let contracts building 9878 ft. vitr. block road, 16 ft. wide, Highway Route 52, Sect. 4C, Cambria Co., to E. H. Brua, Holidaysburg, $78,858; 11,070 ft. vitr. block road, Highway Route 52, Sect. 4B, through Jackson and East Taylor Twps., Cambria Co., to J. L. Elder, Center St., Ebensburg, $95,881; 6537 ft. rein.-conc. road through Upper Dublin, Upper Moreland and Abington Twps., Montgomery Co., to Ambler, Davis Co., Harrison Bldg., Phila., $44,349; 5800 ft. State-aid road in Clinton Twp., Clinton Co., to N. J. Boyer, Butler, $30,225. Noted Oct. 18.

★**Md., Emmitsburg**—City let contract paving several streets, to Potomac Eng. & Contr. Co., 708 Law Bldg., Baltimore. About $10,000.

★**N. C., Greensboro**—City let contract paving 10,000 sq.yd. on Elm St. asphalt, and 5000 sq.yd. on other streets, to R. G. Lassier & Co., Oxford, $16,800.

Streets and Roads (Continued)

★**N. C., Newbern**—City let contract paving Bridgeton St., brick; connecting Neuse River County bridge with improved highway through town to Vanceboro to Georgia Eng. Co., Augusta. About $12,000.

★**S. C., Darlington**—City let contract paving busines section, to Simons & Mayrant Co., 18 Broad St., Charleston. About $54,895. Noted May 10.

★**S. C., Spartanburg**—(Official) — Spartanburg Co. let contract building 12.9 mi. 20-ft. top soil on Buncombs Rd. between Woodruff and Crossanchor, to Thompson & Chandler, Burlington, N. C., $33,000. Noted Oct. 25.

★**Ala., Gadsden**—City let contract paving 6th St., asphaltic concrete on concrete base, to J. F. Morgan & Co., Gadsden. About $11,000. Noted Oct. 18.

★**Ala., Russellville**—(Official) — City let contract grade work, gravel paving and culvert work, to Mitchell Bros., Oneonta, Ala., $35,067. Noted Sept. 20.

★**O., Cleveland**—Bd. Control let contract paving portion Edgewater Cliff Dr., to Cleveland Trinidad Paving Co., The Arcade. About $25,400. Noted Oct. 4.

★**O., Lakewood**—City let contract grading and building sidewalks, to E. Cosa, 2454 Baldwin Rd., $33,000; Ohio Concrete Co., 14,716 Detroit Ave., $6060; Randall & Cooper c/o Sewer Constrs. Assn., 343 The Arcade, Cleveland, $67,000.

★**O., Lisbon**—(Official)—Columbiana Co. Comrs. let contract improving portion Lisbon-Bayard-Canton Pub. Rd., to Seiple & Wolf, Youngstown, $82,254. Noted Oct. 25.

★**O., Maumee**—Village let contract building pavements and sewers in various streets, concrete, to Warner-McKetchnie Co., Nasby Bldg., Toledo, $17,000.

★**Ind., East Chicago**—City let contract 6385 sq.yd. paving, to Campbell Constr. Co., Hammond, $18,123.

★**Mich., Grosse Pointe**—City let contract improving Wayburn Ave., to T. E. Currie, 20 McGraw Bldg., Detroit; $1.65 per sq.yd. for excavating an1 concrete base; $0.55 per lin.ft. concrete curb, 6 x 24 in.; $1.80 per sq.yd., brick paving.

★**Ill., Berwyn**—City let contract paving Harvey, Wenonah, and Wisconsin Aves., asphaltic concrete, to H. Goeliz, 810 North Blvd., Oak Park. Noted Oct. 11.

★**Ill., La Salle**—City let contract paving Hennepin St. from 1st to 4th St., brick, also concrete curbing, to T. W. Keys, La Salle, $12,800.

Ia., Des Moines—City received lowest bid paving Grand View Ave. from East 14th to North Union St. from Lambert Paving Co., 405 Utica St., $2.81 per sq.yd.

Ia., Sioux City—City received low bids paving 21st St., from Jackson to Jones Sts., from S. J. Krage, Sioux City, paving $1.63 yd., curbing, 39c., extra concrete, $9; J. Oversen & Co., $1.54, 40c. and $10.

★**Minn., St. Paul**—City rejected bids paving 9th St. between Smith and Summit Aves.; College Ave. between 6th and Summit Aves. Work will be done by force account. Noted Aug. 16.

★**Ark., Conway**—Faulkner Co. Comrs. let contract gravel road from here to Saltilli, to Bell Constr. Co., Dallas, Tex. About $48,000. Noted Oct. 11.

★**Ark., Little Rock**—Pulaski Co. Comrs. let contract building roadbed, bridges and culverts on 7 mi. road in Perkins Twp., to J. A. Gregory, Little Rock. About $15,000.

★**Tex., Galveston** — (Official) — City let contract furnishing mudshell for filling on beach crest between 25th and 39th Sts., and surfacing with 6-in. mainland soil, to Hanson Sons, 95c. per cu.yd. About $57,000. Noted Oct. 25.

★**Tex., Paris**—City let contract paving Central Plaza and 23rd Sts., to Texas Bitulithic Co., Praetorian Bldg., Dallas. About $23,004. Noted Oct. 25.

★**Okla., Ardmore**—Carter Co. let contract building 13 mi. road, to Larkin Constr. Co., Dallas, Tex. About $98,997.

★**Okla., Bristow**—City let contract paving Main, 6th and 7th Sts., vertical fiber brick, including 6 in. concrete curb, to Park-Moran Co., Okmulgee. About $30,000. Noted June 7.

★**Idaho, Twin Falls**—City Council let contract paving alleys in Local Impvt. Dist. No. 29, to C. H. Helmer. About $13,782. Noted Oct. 11.

★**Cal., San Diego**—City let contract paving several streets to T. C. Breitenstein, 485 Van Wyck St., Pasadena. About $34,497. Noted Nov. 1.

Cal., Santa Barbara—(Official)—City received lowest bid improving Salsipuedes and Carpenteria Sts., from Fairchild-Gilmore-Wilton, Pacific Electric Bldg., Los Angeles, $73,482. Noted Oct. 4.

★**Cal., Santa Cruz** — (Official)—Santa Cruz Co. received no bids, Oct. 23, improving 6 mi. highway between Santa Cruz and Felton. Work will be done by day labor. Noted Oct. 18.

★**Cal., Santa Monica**—City let contract paving Central Ave. to F. Ockert. About $30,739.

★**Man., St. Francois Xavier** — City let contract building highway to A. A. Balvin; $165,000.

RAILWAYS—STEAM & ELECTRIC

Proposed Work

Kentucky—Louisville & Nashville R.R. plans to build extension from Blackley up Rockhouse Creek, to develop coal mines, about 18 mi. W. H. Courtney, Louisville, ch. engr.

Texas—Kansas City, Mexico & Orient R.R. soon lets contract building extension from Alpine to Chihuahua, Mexico, about 135 mi. N. J. O'Brien, San Angelo, Tex., genl. mgr.

British Columbia—Kettle Valley Ry. plans to build branch line from Pendicton to Copper Mountain, about 14 mi. Cost, $1,000,000. A. McCulloch, Penticton, ch. engr.

EXCAVATION AND DREDGING

Proposed Work

Cal., Redding—Irrigation—E. G. Hopson, Portland, Ore., granted permit by State Water Comn., San Francisco, to divert water Cow Creek in Shasta Co. for irrigation purposes. Work involves canal 10 mi. long, ditch, 34,750 ft. long. About $100,000.

BIDS DESIRED

Pa., Phila.—Dredging—See "Streets and Roads."

O., Marion—Ditch—Until Dec. 6, by C. Ash, co. surv., building drainage ditch, known as Tymochtee Creek Impvt.; advertised in this issue. Noted June 21.

Wis., Somers—Drainage—Until Nov. 10, by Bd. Town Supervs., building Pike Creek D.D.; work involves 19,000 lin.ft. open ditch, 84,763 cu.yd. excav., 26,823 ft. 6-30 in. tile. J. J. Barrows, comr.

Ia., Clarion—Drainage—Until Nov. 12, by F. E. Osier, aud. Wright Co., building Franklin-Wright Joint Drain Nos. 8-159, involving 46,756 ft. 6-28 tile; Franklin-Wright Joint Drain Nos. 6-141, involving 53,985 ft. 6-30 in. tile.

Minn., Glenwood—Ditch—Until Nov. 22, by O. Irgens, aud., Pope Co., building Co. Ditch No. 15, involving 129,705 cu.yd. excav. About $14,269. Noted Sept. 13.

Mo., Memphis—Ditch—Until Nov. 22, by Wyaconda River D.D. No. 2, Scotland Co., at office of C. J. Weegner, engr., building 3.43 mi. drainage ditch, involving 156,000 cu.yd. excav.; also cleaning out ¾ mi. old ditch.

Ont., Dover Twp.—Drainage—Until Nov. 15, by W. G. McGeorge, engr., 153 Queen St., Chatham, building drainage system for township council. About $20,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Albany**—Barge Canal Improvements—W. W. Wotherspoon, supt. pub. wks., Capitol, let Contract No. 179, completing canal prism excav. and incidental work at New York Central R.R. crossing near Pittsford, to I. M. Ludington Sons, Inc., Powers Bldg., Rochester, $79,712. Noted Oct. 11.

N. Y., Albany—Barge Canal Improvements—W. W. Wotherspoon, supt. pub. wks., Capitol, received low bids improving New York State canals, Contract No. 152, from F. L. Cohen, 49 Niagara St., Buffalo, $113,354, Lupfer & Remick, 592 Ellicott Sq., Buffalo, $142,278; Contract 165, Mohawk Dredge and Dock Co., Inc., Herkimer, $176,215; Contract 170, Cleveland & Sons Co., Brockport, $64,588; Woolsey Constr. Co., Davenport, Ia., $67,217; Mohawk Dredge and Dock Co., Inc., Herkimer, $74,595. Noted Oct. 11.

N. Y., New York—Drainage—Dept. of Health received low bids, Oct. 30, ditching, draining, filling and improving certain areas in salt marshlands and meadows, in Bronx and Queens Boro., from U. S. Drainage & Irrigation Co., 17 Battery Pl., (a) $20,900, (b) $3515, (c) $3515; Eaton, Brown & Simpson, Inc., 90 West St., (a) $22,050, (b) $4495, (c) $3895; Peace Bros., 20 Main St., Flushing, N. Y., (b) $5500.

★**Fla., Elkton**—Drainage—Elkton D.D. No. 2 let contract building 4½ mi. canal to drain 2200 acres to M. L. Grimes, Elkton.

★**Minn., Mankato** — (Official) — Ditch—Blue Earth Co. let contracts building Co. Ditch No. 50, to P. Paulson, Carroll, Ia., tile, $81,000; Rood Constr. Co., Grand Rapids, Wis., open work, $0.1465 per yd. Noted Oct. 4.

★**Minn., Mankato** — (Official) — Ditch — Blue Earth Co. let contract building Co. Ditch No. 53, to Judson Concrete Co., Judson, Minn., $14,950. Noted Oct. 18.

★**Minn., Marshall**—Ditch—Lyon Co. let contract tile on Judicial Ditch No. 16, to Marshall Tile and Cement Co., Marshall, $45,995.

★**Ont., Toronto**—Drainage—Bd. Control let contract completing Moore Park drainage system, to Godson Contr. Co., Ltd., Manning Chambers, $60,000.

INDUSTRIAL WORKS

Proposed Work

Mass., Provincetown — See "Miscellaneous."

N. Y., Brooklyn—Bemis Bros. Bag Co., 61 Bway., New York City, having plans prepared by G. W. Wadleigh, archt., 61 Bway., for 3-story, 85 x 700-ft. factory, rein.-con., on 52nd St. About $300,000.

N. Y., Brooklyn—H. Davidson, 28 Devine St., had plans prepared by M. Zipkes, archt., 405 Lexington Ave., New York City, 2-story, brick garage on Marion St. About $35,000.

N. Y., Brooklyn—North American Brewing Co., Hamburg and Greene Aves., had plans prepared by T. Engelhart, archt., 905 Bway., for 2- and 6-story, 90 x 100- and 50 x 130-ft. additions to its brewery. About $140,000.

N. Y., Brooklyn—Willoughby Garage Corp., 26 Court St., had plans prepared by Cantor & Dorfman, archts., 371 Fulton St., for 2 story, 92 x 154 ft. garage. About $100,000. J. Goodsky, pres.

N. Y., Buffalo—Transmission Ball Bearing Co., 1050 Military Rd., purchased 7 acre site here and plans new factory.

N. Y., College Point—L. M. F. Eng. Co. had plans prepared by P. M. Coco, archt., 120 West 32nd St., New York City, 1-story, 100 x 170-ft. brick factory, 4th Ave. and 10th St. About $150,000. A. Flint, genl. mgr.

N. Y., New York—Non-Column Garage Constr. Co., Edgewater, N. J., having plans prepared by M. J. Harrison, archt., World Bldg., for brick and stone garage, 143rd St. near Lenox Ave. About $25,000.

N. Y., New York—J. Ruppert, Inc., 1639 Third Ave., had plans prepared by Maynick & Franke, archts., 25 Madison Sq., 1-story, 105 x 210-ft. garage, 268-274 East 91st St. About $30,000.

N. Y., New York—M. Waldman plans to build garage at 156-158 East 105th St. About $25,000

N. J., Newark—Wallington Leather Co., 42 Kent St., having plans prepared by F. Grad, archt., 245 Springfield Ave., for new 50 x 150 ft. rein.-con. factory; also 50 x 115 ft. addition, on Frelinghuysen Ave. About $40,000.

N. J., Yardville — Zee Zee Rubber Co., Yardville, had plans prepared by J. O. Hunt, archt., 114 North Montgomery St., Trenton, for plant including 2-story, 50 x 160-ft. brick factory for tubes, 40 x 60-ft. mill room and 2-story, 40 x 125-ft. office. About $350,000.

Pa., Bloomsburg—F. P. Edwards, 150 West Main St., soon lets contract for 2 story garage. About $25,000. W. H. Lee, Dime Trust Bldg., Shamoken, archt.

Pa., Erie—Erie Forge Co., 15th and Cascade Sts., plans plant outside of city limits. About $2,000,000.

Pa., Farrell—Carnegie Steel Co., Carnegie Bldg., Pittsburgh, will build a new bar mill here. About $1,200,000.

Pa., Nazareth—Dexter Cement Co., Nazareth, plans large addition to plant. About $300,000.

Pa., Phila.—Berman Bros., 6019 Market St., plans 112 x 120 ft. garage on Cedar Ave. and 61st St. About $25,000.

Pa., Phila.—M. T. Lucas purchased site on 46th and Chestnut Sts. and plans to build garage. About $26,000.

Md., Baltimore—Corkan & Hill Co., 27 South Howard St., having plans prepared by Gardener & Lindberg, archts., 140 South Dearborn St., Chicago, for 3-story packing and cold-storage plant. About $200,000.

Industrial Work (Continued)

Md., Baltimore—Porcelain Enamel & Mfg. Co., O'Donnell St., soon lets contract for 1 story, 120 x 229 ft. factory, Bayard and Ridgeley Sts. About $100,000.

Md., Westport—Chesapeake Iron Works, soon lets contract 1 story erecting shop at plant here. About $150,000.

W. Va., Mullens—Mullens Ice & Cold Storage Co. had plans prepared by A. F. Wysong, archt., Princeton, W. Va., for bottling and cold-storage plant. About $50,000.

N. C., Morgantown—Garron Knitting Mills recently incorporated with $150,000 capital stock, plans to build several factories here.

Tenn., Paris—Louisville & Nashville R.R. plans roundhouse, shop, etc. About $60,000. W. H. Courtenay, ch. engr.

O. Bucyrus—A. L. Holloway, local agt. for Ford Motor Car Co., purchased site at 243 East Mansfield St., and plans 2 story garage. About $30,000.

O., Cincinnati—Fox-Klein Motor Co., 123 East 7th St., having plans prepared for 3 story, 65 x 100 ft. factory. Gilbert Ave., near 8th St.

O., Cleveland — Manufacturers Oil and Grease Co., 608 Century Bldg., plans factory on Walworth Ave. About $25,000.

O., Cleveland—K. V. Painter, 6203 Euclid Ave., plans to build garage. About $40,000.

O., Cleveland—Pipe Machinery Co., 4907 Mead Ave., plans 1 story brick factory, Mead and Mumford St. About $25,000.

O., Cleveland—Simmons-Chalmers Co., 1900 East 19th St., plans to build garage and service station. About $100,000. R. C. Simmons, genl. mgr.

O., Sandusky—Lake Erie Drydock & Mill Co., recently incorporated with $1,600,000 capital stock, plans shipbuilding plant. C. Bright, 222 East 82nd St., New York City, interested.

O., Toledo—Toledo Plate & Window Glass Co., 1014 West 11th St., plans 113 x 200 ft. factory, St. Clair and Hamilton Aves. About $150,000.

Ind., Great Falls—Montana Power Co., Electric Bldg., Central Ave., plans 90 x 138 ft. substation. About $150,000.

Ind., Whiting—Great Western Smelting & Refining Co., Chicago, purchased 25-acre site at Whiting, and plans to build plant; first unit to be foundry. About $60,000.

Mich., Detroit—Essex Motor Corp., 2901 East Jefferson Ave., soon lets contract for 1-story, 100 x 500-ft. factory. About $100,000. W. J. McAneeny, pres.

Mich., Detroit—Pennsylvania Lines West of Pittsburgh having plans prepared by B. C. Somerville, engr., 802 Penobscot Bldg., for 3 story 400 x 1000 ft. freight house. Estimated cost, $1,000,000. W. Thos. Rodd, Pittsburgh, ch. engr.

Mich., Pontiac—C. R. Wilson Foundry & Machine Co. had plans prepared for factory on South Saginaw St. About $30,000. C. B. Wilson, pres. Smith, Hinchman & Grylls, 710 Washington Arcade, Detroit, archts.

Ill., Chicago—G. M. Davis Regular Co., 422 Milwaukee Ave., having plans prepared by F. D. Chase, engr., Chicago, for 1 story factory, 25th St. and Washtenaw Ave. About $75,000.

Ill., Chicago—Gutmann & Co., 14 West Austin Ave., soon let contract for 5-story, 60 x 150-ft. addition to tannery, Dominick St. and Webster Ave. E. J. Gutmann, pres. Ottenheimer, Stern & Reichert, 220 South State St., archts.

Ill., Chicago—Illinois Central R.R. purchased site between 157th and 175th Sts., and plans to build new freight house. About $1,250,000. A. S. Baldwin, ch. engr.

Ill., Cicero—Chicago, Burlington & Quincy R.R., Chicago, soon lets contract 1-story, 41 x 121-ft. machine shop at Clyde Sta. About $60,000. W. T. Krausch, Chicago, engr. of bldgs. Noted Oct. 18.

Wis., Madison — Steinle-Turret Machine Co., 2305 Waubesa St., plans 1-story, 150 x 500-ft. brick, steel and concrete gun factory.

Wis., Milwaukee—Milwaukee Corrugating Co., 36th Ave. and Burnham St., plans factory. About $100,000.

Wis., Milwaukee—Reitman-Straus Co., 412 Ry. Ex. Bldg., soon lets contract 1 story, 70 x 170 ft. garage on Frederick Ave. and Folsom Pl. About $25,000 G. Klenzendorff, 1015 4th St., archt.

Wis., Milwaukee—Standard Steel Co., increased its capital stock from $30,000 to $300,000, and purchased 23 acre site at Lake St. and Hopkins Rd., on which it plans to build factory. E. J. Guenther, pres. and treas.

Wis., Sheboygan—Kiel Woodenware Co. plans addition to generating plant here. About $65,000.

Ia., Sac City—City retained G. L. Long, engr., Webster City, to supervise building of electric-light plant. About $60,000.

Kan., Rosedale—Rushton Baking Co., 914 Southwest Blvd., plans 2 story, 80 x 148 ft. bakery. About $40,000.

Neb., Omaha—Sprague Tire & Rubber Co., 1106 Woodmen of World Bldg., plans 5 story, 66 x 264 ft. factory.

Mo., Kansas City—M. Ross, 500 East Armour Blvd., having plans prepared by White & Dean, archts., 311 Bellefonte Ave., 2 story garage and machine shop, Bway. and Goodrich St. About $25,000.

Mo., St. Louis — Bulis Mfg. Co., 1122 South 12th St., purchased site on Calvary Ave., and plans addition to factory. About $100,000.

Mo., St. Louis—St. Louis Electric Wks., 4060 Forest Park, increased its capital stock from $20,000 to $100,000, and plans to enlarge and improve plant.

Tex., Temple—Gulf, Colorado & Santa Fe R.R. plans to build power house, machine shop, etc. About $150,000. F. Merritt, Galveston, ch. engr.

Okla., Fredrick—O. L. Phipps, soon lets contract 2 story garage. About $25,000. Vahlberg & Riggins, 304 Baum Bldg., Oklahoma, archts.

Cal., Alturas—Modoc County Packing Corp., had plans prepared for 3 story packing plant. About $75,000.

Cal., Los Angeles—Leach Motor Car Co., 1132 South Grand Ave., plans 3 story, 100 x 155 ft. factory, 16th and Figueroa Sts. About $150,000.

Cal., Los Angeles—United Light & Power Co., plans electric power plant on San Gabriel River. About $300,000.

Cal., Sacramento—Libby, McNeil & Libby, 31st and P Sts., had plans prepared by W. Miller, archt., 417 Market St., San Francisco, for rein.-con warehouse. About $140,000.

N. S., Dartmouth—Liquid Air Co., 1 Earnest St., Montreal, having plans prepared for acetylene plant here. About $50,000.

N. S. Halifax—Robinsons, Ltd., Queen and Doyle Sts., soon lets contract 2 story garage. About $50,000. S. P. Dumasesq, St. Paul Bldg., archt.

Ont., Toronto — Canadian Fairbanks-Morse Co., 26 Front St., W., plans addition to hydraulic plant. About $30,000.

BIDS DESIRED

N. Y., Central Islip—(Official)—Until Nov. 14, by State Hospital Comn., Capitol, Albany, building power house. E. S. Elwood, secy. Advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., Biddeford**—Biddeford Motor Mart, 297 Main St., let contract 2-story public garage to T. R. Brennan, 63 South St., $25,000.

★**Mass., Boston**—(South Boston)—F. E. Atteaux, 176 Purchase St., Boston, let contract 2-story 65 x 170-ft. rein.-con. factory to Turner Constr. Co., 244 Madison Ave., New York City.

★**R. I., East Providence**—Gorham Mfg. Co., foot Earl St., Providence, let contract plant to J. W Bishop Co., 109 Foster St., Worcester, Mass., $150,000.

★**Conn., Stratford**—Royal Equipment Co., let contract 1 story, 90 x 180 ft. factory to Bridgeport Austin Co., 1188 Main St., Bridgeport. About $50,000.

★**N. Y., Brooklyn**—National Lead Co., 174 Front St., let contract 4 story, 112 x 135 ft. factory, rein.-con., Jay and Front Sts., to Turner Constr. Co., 244 Madison Ave., New York City, $90,000.

★**N. Y., Buffalo**—Barber Asphalt Co., 178 Walden Ave., let contract building 1-story, 48 x 122-ft. shop, to C. Berricks Sons, 1151 Main St. About $24,000.

★**N. Y., Fulton**—Fulton Steel Corp., c/o H. W. McAlteer, Woolworth Bldg., New York City, let contract for plant to F. W. Woodcock, Fulton, $60,000.

★**N. Y., Yonkers**—H. Schneider Co., 150 Downing St., let contract 2 story, 30 x 152 and 50 x 86 ft. factory buildings, to J. Diehl Constr. Co., Mansion Ave. About $40,000.

★**N. J., Linden**—See "Buildings."

★**N. J., Newark**—Miner, Edgar Co., Blanchard St., let contract 4 story, 70 x 163 ft. and 1 story, 11 x 40 ft. power house and warehouse, to F. Kilgus, Inc., 13 East 6th St.

★**N. J., Newark**—United Color Pigment Co., 763 Broad St., let contract factory, to W. G. Sharwell Co., Cedar Ave., Montclair, $100,000.

★**N. J., Perth Amboy**—National Synthetic Co., let contract 1 story factory building, to Tullis & Blanchard, 326 East 42nd St., New York City, $75,000.

★**Pa., Pittsburgh**—South Negley Ave. Garage & Repair Co. let contract 2 story garage, to Lytle Campbell Co., Inc., 1007 Forbes St. About $55,000.

★**O., Cincinnati**—Proctor & Gamble Co., Spring Grove St. and Ivorydale Ave., let contract 4-story, 60x350-ft. rein.-con. addition to factory to Ferro Concrete Constr. Co., Richmond and Harriet Sts.

★**O., Cincinnati**—O. Schiear Motor Car Co. let contract 2 story, 90 x 110 ft. warehouse, 9th and Sycamore Sts., to L. Eid Constr. Co., 1206 Liberty St. About $60,000. Noted Sept. 6.

★**O., Cleveland**—A. P. Schraner Pattern Works Co., 430 Prospect Ave., N. W., let contract, 3-story, 60 x 107-ft., on Payne Ave., N. E., to H. G. Stalmyer & Son Constr. Co., 203 Lakeside Ave., N. W. Noted Oct. 4.

★**Mich., Detroit**—Lincoln Motor Co., West Warren and Levermois Sts., let contract 4 story, brick and concrete factory and 1 story power plant, to Walbridge-Aldinger Co., Detroit.

★**Ill., Chicago**—Erman Tire & Rubber Co., 144 West 27th St., let contract 2 story addition, to J. L. Carnegie & Son, 189 West Madison St., $50,000.

★**Ill., Chicago**—Robb Motor Co., 2803-10 Sheffield Ave., let contract 3-story, brick, garage, to J. A. Wesche Co., 163 West Washington St., Chicago, $76,000.

★**Ill., Decatur**—Comet Automobile Co., Orlando Bldg., let contract 2-story assembling plant, to M. J. Hoffman Constr. Co., Rookery Garage Bldg., Evansville, Ind., about $135,000. Noted June 7.

★**Ia., Sioux City**—Sioux City Welding & Machine Wks. let contract welding and machine shop, to Blanchard Bldg. Co., Frances Bldg., $30,000.

★**Colo., La Salle**—Union Pacific R.R. let contract icing plant, to J. P. McDonald, Denver, $100,000.

★**Wash., Seattle** — Willys Overland Co., Central Bldg., let contract 2-story, 113 x 180-ft., rein.con. garage, salesroom and repair shop, to Warrack Constr. Co., Arcade Bldg. About $153,000.

★**Cal., Oakland**—Moore & Scott Iron Wks., 678 Second St., San Francisco, let contract 1 story, steel and frame machine shop, to P. J. Walker Co., Monadnock Bldg., San Francisco, $65,000.

BUILDINGS

Proposed Work

Mass., Boston—School—Bd. Educ. soon lets contract, 2-story, 80 x 150 ft. About $140,000. T. D. O'Conner, comr. J. McLaughlin, 88 Tremont St., archt.

N. Y., Brooklyn—Club House, Etc.—Queens County Jockey Club, 399 Fulton St., had plans prepared by T. Bennett, archt., 7826 5th Ave., for 3-story, 35 x 88-ft. addition to clubhouse, paddock and grandstand, Aqueduct Race Track. About $60,000.

N. Y., Elmhurst—High School—Bd. Educ. plans addition to Newtown High School on Chicago St. About $400,000. Boring & Tilton, 52 Vanderbilt St., New York City, archts.

N. Y., Greycourt—Colony—Dept. of Correction, Municipal Bldg., New York City, had plans prepared by C. B. Meyers, archt., 1 Union Sq., New York City, for women's farm colony buildings to be 4 story, 300 x 400 ft. and 40 x 200 ft. Address N. G. Lewis. About $325,000.

Buildings (Continued)

N. Y., New York—Hotel—A. G. Vanderbilt Estate, Grand Central Terminal, had plans prepared by Warren & Wetmore, archts., 15 East 47th St., for 18 story, 80 x 197 ft. addition to Hotel Vanderbilt; Hilliard Hotel Co., 502 4th Ave., lessee. G. L. Boissevain, pres.

N. Y., New York—Inn—Blue Goose Inn Operating Co., 90 West St., had plans prepared by W. G. Massarehe, archt., 15 East 40th St., for 1 story addition. About $50,000. R. Joseph, pres.

N. J., Trenton—Dormitory—State Bd. Archts. rejected bids, 3-story, at School for Deaf. Figures were in excess of appropriation. Noted Oct. 18.

Pa., Harrisburg—High School—Bd. Educ., 121 Chestnut St., soon lets contract, 3 and 4 story, 167 x 183 ft. About $200,000. A. C. Stamm, pres. C. H. Lloyd, Telegraph Bldg., archt. Noted June 7.

Pa., Phila.—High School—Bd. Educ., c/o W. Gayley, 621 Edgemont Ave., soon lets contract, 4 story, 115 x 240 ft. About $200,000. C. S. Adams, 1509 Arch St., archt.

Pa., South Bethlehem — Lodge — W. L. Ester, 805 Delaware Ave., c/o Kappa Alpha Fraternity, soon lets contract, 3-story, 28 x 106 and 14 x 33 ft. V. Van Polt, 381 4th Ave., New York City, archt.

Md., Baltimore — Theater — Homewood Amusement Co., c/o G. A. Finch, 1127 Munsey Bldg., soon lets contract, 1 story, 73 x 125 ft. About $150,000. Blake & Zink, Equitable Bldg., archts. Noted Sept. 13.

W. Va., Huntington—Bank and Office—Union Bank and Trust Co., 4th Ave. and 9th St., soon lets contract, 10-story, 40 x 90 ft. About $150,000. Bankers Eng. Co., 112 West 19th St., New York City, archt. Noted Sept. 20.

Ga., Claxton—Court House—Evans Co. election soon to vote on $50,000 bond issue for court house.

O., Columbus — Prison — State Prison Comn. having plans prepared by Richards, McCarty & Bulford, archts., Hartman Bldg. Cost between $2,500,000 and $4,000,000.

Ind., Gary—Bank, Store and Office—Union Trust & Savings Bank had plans prepared by A. H. Andrews, archt., 1100 West 22nd St., 1 and 3 story, 75 x 125 ft. About $125,000. D. F. Van Liew, cashier.

Mich., Detroit—Church, Rectory and School—St. Hyacinth's congregation, McDougall and Frederick Aves., had preliminary plans prepared by E. Brielmier & Sons Co., archts. 41 University Bldg., Milwaukee, and 19 South La Salle St., Chicago. 1 story. About $300,000. I. S. Malkiewicz, pastor.

Mich., Mt. Pleasant—School—Bd. Educ. voted $60,000 bonds to build school.

Ill., Chicago—Church—Grace Episcopal congregation soon lets contract, 105 x 172-ft., to replace one destroyed by fire few years ago. About $200,000. B. G. Goodhue, 2 West 47th St., New York City, archt. Noted July 12.

Ill., Chicago—Temple—Glennon & Kern, 626 South Kern St., c/o Chicago Northern Masonic Assn., soon lets contract for 4-story, 150 x 150 ft. About $200,000. F. Glennon, chn. bldg. com. R. M. Hyde, 234 South La Salle St., archt.

Wis., Marathon—Seminary — Capuchin Fathers plan, 2 story, 150 x 170 ft. About $200,000. H. T. Liebert, Wasau, archt.

Wis., West Allis—High School—Bd. Educ. soon lets contract. About $200,000. R. A. Messmer & Bros., Majestic Bldg., archts. Noted June 21.

Kan., Minneapolis — See "Streets and Roads."

Kan., Pittsburg—Business College—P. W. Errelo having plans prepared by Maxwell & Maxwell, archts., 505 South Bway., 3-story, brick. About $50,000.

Kan., Topeka—Church—H. Smith, Cudahy Ave., Los Angeles, Cal., c/o C. E. Bryan Syndicate plans, on Euclid Ave. About $100,000.

Kan., Wichita—Bank—Kansas City Natl. Bank having plans prepared, 15 story, 150 x 150 ft., Main and Douglas Sts. About $1,000,000. C. W. Southard, vice pres.

Neb., Gering—Court House—Scotts Bluff Co. plans election soon to vote on $100,000 bond issue to build courthouse.

Okla., Bartlesville—Lodge and Office—Masonic Bodies, c/o H. Weber, M. D., having plans prepared by A. L. McGregor & W. Everman, archts., 8 story, 100 x 140 ft. About $275,000. Noted May 17.

Okla., Bryan—High School—Pawnee Co. voted $90,000 bonds to build high school here. L. B. Smith, Pawnee, co. school supt.

Okla., Norman—Dormitory and Cafeteria—University Building Co. plans. About $70,000. E. De Barr, pres.

Okla., Oklahoma—Office—Western Natl. Bank having plans prepared by Hawk & Parr, archts., 501 Security Bldg., 12 story, brick and rein.-con. About $200,000.

BIDS DESIRED

Me., Lewiston—Social—Until Nov. 14, by Bates College, 2 story, 162 x 210 ft., brick. About $100,000. Coolidge & Carlson, 89 State St., Boston, archts.

N. J., Red Bank—School—Until Nov. 13, by Bd. Educ., 2-story, on Park Pl. About $125,000. Noted Oct. 4.

W. Va., Glenville—Court House, Jail, etc. —Until Dec. 1, by Gilmer Co., 2 story, 75 x 100 ft. About $55,000. A. F. Wysong, Princeton, archt.

Ia., Pleasant Plain — Grade and High School—Until Nov. 20, by Consolidated School Dist. Reimer & Herlin, Marshalltown, archts.

Kan., Eldorado—Court House—Until Nov. 12, by Schleicher Co. Comrs. H. B. Thompson, 1203 Southwestern Life Bldg., Dallas, Tex., archt.

Okla., Sapulpa—High School—Until Nov. 12, by Bd. Educ., 3 story, brick, stone, and rein.-con. About $200,000. J. W. Young, clk. C. A. Popkin, Berryhill Bldg., archt. Noted Oct. 18.

Cal., Palo Alta—High School—Until Nov. 13 (readvertisement) by High School Trustees, to consist of 7 buildings. About $200,000. Allison & Allison, Hibernian Bldg., Los Angeles, archts. Noted July 5.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Shelton**—Sanitarium—State let contract addition to tuberculosis sanitarium, to L. A. Miller, 21 Church St., Meriden, $52,000. Noted Oct. 18.

N. Y., Fredonia—Hospital—Chautauqua Co. received lowest bid for tuberculosis hospital, from Green & Wicks, 110 Franklin St., Buffalo, $153,555.

★**N. Y., New York**—Office and Transportation—Adams Express Co., 61 B'way., let contract 1-story, 50x150-ft. transportation building, and 2-story, 21x100-ft. office building; 216-230 West 31st St., and 225-237 West 30th St., to J. O'Dell Whitenack, 231 West 18th St., about $70,000.

★**N. Y., Syracuse**—Theater, Store, and Office—Keith & Albee, 1564 Bway., New York City, let contract 1 story, 72 x 120 ft. and 10 story, 118 x 147 ft., to E. K. Fenno, 204 North Beech St. About $500,000. Noted Sept. 20.

★**N. J., Linden**—Office, etc.—Standard Aëro Corp., Elizabeth, let contract 2 story, 60 x 140 ft. office, and 2 story, 50 x 145 ft. factory, brick and steel, to A. E. Austin & Sons, 14230 Euclid Ave., Cleveland, O., $250,000.

N. J., Trenton—Hospital—State received low bids for Criminal Insane Hospital, from W. H. Fissell & Co., Bway. and 34th St., New York City, $61,258; Matthews Constr. Co., Rosedale Rd., Princeton, $79,000. Noted Nov. 1.

★**Pa., Fairview**—Wards and Connecting Corridors—State Comn. for treatment for Criminal Insane let contract to Roydhouse, Arey Co., 112 North Broad St., Phila., about $80,000. Noted Sept. 20.

★**Pa., Tarentum** — Hospital — Allegheny Valley Hospital let contract, 2 story, to Williams & Haas, Empire Bldg., Pittsburgh, $120,000.

★**Wash., D. C.** — Office — A. C. Mather, 141 South 5th St., Chicago, let contract, 68 x 113 ft., on G St., to A. L. Smith, Woodward Bldg. About $250,000.

Fla., Jacksonville—School—Bd. Educ. received lowest bid brick school, 5th and Hubbard Sts., from O. P. Woodcock, 403 Main St., $79,500. Noted June 20.

★**Ala., Carbon Hill**—School—Bd. Educ. let contract, 3 story, concrete, tile, and brick, to Walker Bros. & Co., Fayette, $210,000.

★**Tenn., Chattanooga**—Chapel and Science Hall—Chattanooga University let contract, to J. O'Brien, Chattanooga. About $85,000. Noted Oct. 11.

★**O., Cleveland**—Church—Fourth Church Christ Scientist let contract, brick and steel, East 105th St. and Fairmount Rd., to E. S. Barlow, 25 Hunt Ave., Boston, Mass. About $200,000. Noted Nov. 1.

★**O., Cleveland**—Store and Office—Oak Investment Co. let contract, 6 story, East 11th St. and Walnut Ave., to Paul Bros., Citizens Bldg.

★**Ind., Mishawaka**—Hospital—St. Mary's Mercy Hospital let contract, 3-story, to Larsen & Danielson, 1205 Washington St., Laporte, Ind., $120,000. Noted Oct. 18.

★**Ia., Mapleton**—High and Grade School—Bd. Educ. let contract, 3 story, 79 x 164 ft., to C. W. Ennis, Toledo, Ia.; about $95,000. Noted July 12.

★**Ia., Spirit Lake**—Hotel and Administration—Knight Templars of Iowa, c/o C. Huttenlocke, pres. bldg. comn., Des Moines, let contract 3 story, 32 x 360 ft., rein.-con., to Guarantee Constr. Co., Cedar Rapids. About $125,000. Noted Sept. 20.

★**Minn., Minneapolis**—School—Bd. Educ. let contract 2 story addition to Corcoran School to Lawrence Constr. Co., 624 Plymouth Bldg. About $56,000. Noted June 28.

★**Minn., Pipestone** — High School — Bd. Educ. let contract to L. C. Jorgenson, 1072 Marshall Ave., St. Paul, $350,000. Noted June 21.

★**Kan., Pittsburgh** — Bank — 1st State Bank let contract to Hoggson Bros., 485 5th Ave., New York City. About $100,000.

★**Kan., Smith Center**—Court House—Smith Co. let contract, 2-story, 82 x 98 ft. stone and rein.-conc. to M. E. Brady, Smith Center. About $85,000. Noted Oct. 4.

★**Kan., Winfield**—Hotel—Winfield Hotel Co., let contract 4 story, brick, stone, and rein.-con., to H. L. Stevens Co., 900 South Michigan Ave., Chicago, $80,000.

★**Neb., Omaha**—Store and Hotel—Commi Realty Co., 514 Ware Blk., let contract, 10 story, 66 x 132 ft., to G. A. Thompson, Brandies Theater Bldg., $400,000.

★**Colo., Pueblo**—Colorado Fuel & Iron Co. let contract 2 story, 120 x 315 ft. Y. M. C. A. building, to Narble Bros., Pueblo, $200,000

★**Cal., Healdsburg**—High School—Bd. Educ. let contract to Anderson & Ringrose, 320 Market St., San Francisco, $68,493.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Boston—Heating—Bureau Yards and Docks, Navy Dept., Wash., preparing plans for heating system at Commonwealth Pier, specification No. 2684.

R. I., Newport—Garage—Bureau Yards and Docks, Navy Dept., Wash., preparing plans building, at Naval Torpedo Sta.; specification No. 2688. About $10,000.

Pa., Phila.—Fitting Out Piers—Bureau Yards and Docks, Navy Dept., Wash., preparing plans 3 fitting out piers; specification No. 2692. About $505,000.

Pa., Phila.—Heating System for Emergency Barracks—Bureau Yards and Docks, Navy Dept., Wash., preparing plans.

Pa., Phila. — Piping System — Bureau Yards and Docks, Navy Dept., Wash., preparing plans, building at Navy Yard; specification No. 2694. About $240,000.

Md., Indian Head—Dock and Railroad—Bureau Yards and Docks, Navy Dept., Wash., preparing plans; specifications No. 2687. About $92,000.

Wash., D. C.—Extension to Marine Barracks—Bureau Yards and Docks, Navy Dept., preparing plans for extension to marine barracks, at St. Juliens Creek, Va., specification No. 2686.

Wash., D. C.—Pier and Bulkhead Wall—Bureau Yards and Docks, Navy Dept., preparing plans building at Hampton Roads; specification No. 2690. About $1,631,000.

Federal Government Work (Continued)

Wash., D. C.—Temporary Buildings—Bureau Yards and Docks, Navy Dept., Wash., preparing plans 10 temporary buildings at Hingham, Mass., and Lake Denmark, N. J., specification No. 2685.

Va., Hampton—Electrical and General School—Bureau Yards and Docks, Navy Dept., Wash., preparing plans; specification No. 2693. About $360,000.

S. C., Charleston—Automatic Sprinkler System—Bureau Yards and Docks, Navy Dept., Wash., preparing plans, installing in general storehouse.

Cal., Mare Island—(Vallejo P.O.)—Extension of Building—Bureau Yards and Docks, Navy Dept., Wash., preparing plans extending building No. 122; specification No. 2689.

Ala., Andalusia—Post Office—J. A. Wetmore, superv., archt., treas. dept., Wash., rejected bids opened Oct. 23. Noted Nov. 1.

BIDS DESIRED

Mass., Boston—Bulkhead—Until Nov. 19, by Bureau Yards and Docks, Navy Dept., Wash., building timber bulkhead at Navy Yard.

Mass., Chelsea—Heating, Plumbing and Lighting Systems—Until Nov. 12, by Bureau Yards and Docks, Navy Dept., Wash., installing at emergency hospital.

Pa., Phila.—Reservoir—Until Nov. 26, by Bureau Yards and Docks, Navy Dept., Wash., for 2,000,000 gal. rein.-con. reservoir; specification No. 2654. Noted Oct. 25.

Wash., D. C.—Addition to Forge Shop—Until Nov. 12, by Bureau Yards and Docks, Navy Dept., building at Navy Yard. About $155,000. Noted Nov. 1

Wash., D. C.—Storehouse, etc.—Until Nov. 12, by Bureau Yards and Docks, Navy Dept., building general storehouse, 1 covered annex and 1 covered extension to crane runway. About $400,000. Noted Oct. 11.

W. Va., Charleston—Electric Duct System—Until Nov. 26, by Bureau Yards and Docks, Navy Dept., Wash.; specification No. 2669. About $5000. Noted Nov. 1.

Fla., Key West—Filling—Until Nov. 19, by Bureau Yards and Docks., Navy Dept., Wash. About $25,000. Noted Oct. 25.

Miss., Gulfport—Emergency Camp—Until Nov. 12, by Bureau Yards and Docks, Navy Dept., Wash.; specification No. 2616. Former contract awarded to J. Griffith & Son, 112 West Adams St., Chicago, rescinded. Noted Nov. 1.

Miss., Gulfport—Emergency Hospital—Until Nov. 12, by Bureau Yards and Docks, Navy Dept., Wash.; specification No. 2615. Former contract awarded to J. Griffith & Son, 112 West Adams St., Chicago, rescinded. Noted Nov. 1.

Miss., Vicksburg—Levee Work—Until Nov. 10, by 3rd Mississippi River Dist., P. O Box 404, Vicksburg, 410,000 cu.yd. levee work.

La., New Orleans—Bulkhead—Until Dec. 5, at U. S. Engr. Office, Custom House, for bulkhead at Southwest Pass Mississippi River; advertised in this issue.

La., New Orleans—Levee Work—Until Nov. 10, by U. S. Engr. Office, 519 Canal St., New Orleans, 1,822,000 cu.yd. earthwork, in Lower Tensas, Barataria and Pontchartrain Levee Dists.

La., New Orleans—Radio Buildings—Until Nov. 26, by Bureau Yards and Docks, Navy Dept., Wash. About $15,400. Noted Oct. 18.

Tex., Denton—Post Office—Until Dec. 17, by J. A. Wetmore, superv. archt., treas. dept., Wash.

N. M., Ft. Stanton—Electric Generating Equipment—Until Nov. 26, at office custodian, U. S. Sanitorium, Ft. Stanton, furnishing and delivering f.o.b. cars Capitan, N. M.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Seawall—U. S. Engr. Office let contract, building at Ft. Warren, to Bay State Dredging & Contg. Co., 247 Atlantic Ave., Boston, $33,000. Noted Oct. 11.

★**Mass., Hingham**—Wall—Bureau Yards and Docks, Navy Dept., Wash., let contract for improvements to wall of slips at Naval Ammunition Depot, to Dewey Cement Constr. Co., 836 Hamilton St., Allentown, Pa., and H. P. Brown Co., 120 Liberty St., New York City. Noted Oct. 25.

★**N. J., Perth Amboy**—Ordnance Storehouses—War Dept. (I. W. Littell, brig. genl.) let contract, to Snare & Triest, Woolworth Bldg., New York City. Cost plus %; about $6,000,000.

Pa., Hollidaysburg—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids (a) limestone, (b) sandstone, from King Lumber Co., Charlottsville, Va., (a) $62,000, (b) $64,000; W. H. Fissell & Co., 1328 Bway., New York City, (a) $63,000, (b) $65,500. Noted Oct. 4.

★**Pa., Phila.**—Salvage Storage Building—Bureau Yards and Docks, Navy Dept., Wash., let contract, to McCloskey & Bahls, 1620 Thompson St. $4475.

★**Md., Baltimore** — Storehouses — War Dept. (I. W. Littell, brig. genl.) let contract building at Curtis Bay Sta., to Smith, Hauser & McIsaacs, 18 East 41st St., New York City. Cost plus % amounting to about $3,000,000.

★**Wash., D. C.**—Barracks—War Dept. (I W. Littell, brig. genl.) let contracts as follows:

To Sperry Eng. Co., 82 Church St., New Haven, Conn:

Ft. H. G. Wright, N. Y.,	4 units	$87,200
Ft. Terry, New York,	5 units	$109,000

To Turner Constr. Co., 242 Madison Ave., New York City:

Ft Schuyler, N. Y.	1 unit	$21,800
Ft. Totten, N. Y.	4 units	$87,200
Ft. Hamilton, N. Y.	7 units	$152,600
Ft. Tilden, N. Y.	1 unit	$21,800
Ft. Wadsworth, N. Y.	7 units	$152,600
Ft. Hancock, N. Y.	12 units	$261,600

To H. H. Jackson, Chester, Pa.

Ft. Dupont, Del.	1 unit	$21,800

To Consolidated Eng. Co., 343-59 Culvert Bldg., Baltimore, Md.:

Ft. Howard, Md.	3 units	$65,400

To Hampton Roads Eng. & Constr. Co., Hampton, Va.:

Ft. Monroe, Va.	4 units	$87,200
Ft. Caswell, N. C.	3 units	$65,400

To W. T. Richardson, Jacksonville, Fla.:

Ft. Taylor, Fla.	2 units	$43,600
Ft. Dade, Fla.	2 units	$43,600

To W. E. Hampton & Co., Los Angeles Trust & Savings Bldg., Los Angeles:

Ft. Rosecrans, Cal.	5 units	$109,000
Ft. McArthur, Cal.	9 units	$196,200

To Dinwiddie Constr. Co., Yeon Bldg., Portland, Ore.:

Ft. Winfield Scott, Cal .	9 units	$196,200
Ft. Stevens, Oregon	3 units	$65,400
Ft Columbia, Wash.	2 units	$43,600
Ft. Canby, Wash.	2 units	$43,600

To Sound Constr. & Eng. Co., 72 Union St., Seattle, Wash.:

Ft. Worden, Wash.	5 units	$109,000
Ft. Casey, Wash.	5 units	$109,000
Ft. Flagler, Wash	5 units	$109,000

Each of these units is estimated to take care of 109 men. Cost of quarters estimated at rate of $200 per man.

★**Wash., D. C.**—School—District Comrs. let contract building addition to Petworth School, to Melton Constr. Co., Real Estate Trust Bldg., $158,700.

Va., Farmville—Post Office—J. A. Wetmore, superv., archt., treas. dept., Wash., received low bids, from R. K. Stewart, South Boston, Va., $46,400; W. J. Brent, 506 Bd. Trade Bldg., Norfolk, $46,999; E. G. Heflin, Fredericksburg, $47,600. Noted Sept. 27.

Va., Norfolk — Romodeling Quarters — Bureau Yards and Docks, Navy Dept., Wash., received low bids, Oct. 29, remodeling quarters H, Marine Barracks, Navy Yard from Nicholas & Lindemann, 523 Seaboard Bank Bldg., $23,990, time 135 days; Nash & Jones, Law Bldg., $27,781, no time stated; W. W. Keenan, Charlottesville, $28,440, 90 days.

★**Va., Norfolk**—Warhouses—War Dept. (I. W. Littell, brig genl.) let contract building, at Pigs Point Sta., to J. Stewart & Co., 30 Church St., New York City. Cost plus % amounting to about $700,000.

★**W. Va., Charleston**—Fence—Bureau Yards and Docks, Navy Dept., Wash., let contract building at U. S. Armor plant, to W. A. Snow, 32 Portland St., Boston, Mass., $12,544. Noted Oct. 18.

★**S. C., Charleston**—Alteration to Immigration Building—Bureau Yards and Docks, Navy Dept., Wash., let contract, to Charleston Eng. & Constr. Co., 58 Broad St., Charleston, cost plus 10%.

★**S. C., Paris Island**—Temporary Hospitals—Bureau Yards and Docks, Navy Dept., Wash., let contract, to W. J. Hadlow, Jacksonville, Fla., $53,690.

Fla., Key West—Tank and Tower—Comr. Fisheries, Dept., of Commerce, Wash., D. C., received only bid building concrete tower and tank at Biological Sta., from Williams-Gerstle Engr. Co., 198 Bway, New York City, $5828, time 120 days. Noted Oct. 11.

★**Fla., Pensacola**—Bulkhead Piers and Repairs to Hangars—Bureau Yards and Docks, Navy Dept., Wash., let contract, to C. H. Turner & Co., 30 East Garden St.; $34,919.

★**La., New Orleans**—Levee Work—U. S. Engr. Office, Queen and Crescent Bldg., New Orleans, let contracts building 4,343,000 cu.yd. earthwork, Lower Tensas, Atchafalaya, Lafourche, Barataria, Pontchartrain and Lake Borgne Dists., to Dameron White Co., Baton Rouge, $12,600; Helgason Bros., $94,775; Grasser Contr. Co., Hennen Bldg., $104,490; D. B. Hearin & Son, and O. O. Ogden, Baton Rouge, $86,710; L. F. Alexander, Audubon Bldg., $58,693. Noted Sept. 27.

O., Kenton—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid, from Schmidt Bros. Constr. Co., Chicago, $73,860, limestone, $75,860, sandstone. Noted Sept. 27.

★**Ind., Indianapolis**—Aviation Camp—War Dept. let contract, to Bedford Stone & Eng. Co., Indianapolis, cost plus percentage. Cost between $200,000 and $800,000.

Ind., Valparaiso—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids, from J. H. Wiese, 1301 City Natl. Bank Bldg., Omaha, Neb., $70,785; C. Weitz & Son, 713 Mulberry St., Des Moines, Ia., $73,000; Schmidt Bros. Constr. Co., 105 North Clark St., Chicago, $77,450. Noted Oct. 4.

Cal., Mare Island—(Vallejo P. O.)—Refrigerating Plant—Bureau Yards and Docks, Navy Dept., Wash., received low bids, building at Navy Yard, from Cyclops Iron Wks., 837 Folsom St., San Francisco, $23,269, alternate, $21,589, time for both 90 days; Vulcan Iron Wks., 1849 Kearney St., San Francisco, $23,850 and $21,550, 90 days; York-California Constr. Co., 832 Folsom St., San Francisco, $25,570 and $25,046, 90 days.

MISCELLANEOUS

Proposed Work

Pier, Bulk Head, etc.—Provincetown, Mass.—Provincetown Cold Storage Co. having plans prepared by F. E. Huhn, archt., for rein.-con., brick and steel pier, bulk head, sea wall, cold-storage plant and warehouse. About $150,000.

Elevated Railway—Phila., Pa.—(Official)—W. S. Twining, dir., Dept. of City Transit, 754 Bourse Bldg., rejected bids on Contract No. 525, steel and frame work and railings, concrete, floors and parapets, side enclosures, roofs, drain gutters and spouts for 4 station platforms and connecting passages or foot bridges between station platforms and station buildings at Orthodox-Margaret Sts. and Ruan-Church Sts. Work will be readvertised. Noted Oct. 18.

Contract Work—McKenzie, Tenn.—Johnson-Porter Clay Co., McKenzie, wish to contract the removal of sand and clay overburden necessary to be removed in open-pit mining of pottery clays; advertised in this issue.

Wharf—St. John, N. B.—Council plans to repair wharf and build shed. About $20,000.

BIDS DESIRED

Bulkheads—Boston, Mass.—Until Nov. 9, by Park & Recreation Dept., 33 Beacon St., grading and building bulkheads on Tenean Beach, Ward 20. J. H. Dillon, chn.

Roof Repairs—Elmira, N. Y.—(Official)—Until Nov. 10, by H. Melville, pres, bd. mgr. of reformatories, Eastern New York Reformatory, Napanoch, repairing roof of superintendent's residence; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Incinerator—Long Island City, N. Y.**—M. E. Connolly, boro. pres., let contract for building and runaway, furnaces, appurtenances, chimneys, etc., of Ravenswood Destructor, 1st Ward, to Kelly & Kelly, 12th St., $173,800. Noted July 19.

Miscellaneous (Continued)

Wall—New York, N. Y.—Dir. Bellevue Hospital received low bids for excav., removals, alterations and replacement north wall of tunnel, front of laundry and power house, south side East 29th St., from Natl. Excav. & Foundation Co., 103 Park Ave., $11,600; Del Balso & Balbo, 261 Bway., $12,090; T. Gallagher, Inc., $12,590.

★Coke Storage Bin—Rochester, N. Y.—(Official)—Rochester Railway and Light Co., 34 Clinton St., let contract, rein.-con., to Turner Constr. Co., 242 Madison Ave., New York City, $70,000.

★Crane Run-Way—Phila., Pa.—Tacony Ordnance Corp., Bleigh and Milnor Sts., let contract to F. W. Mark Constr. Co., Finance Bldg., $10,700.

★Elevated Railway—Phila., Pa.—(Official)—W. S. Twining, dir., Dept., of City Transit, let Contract No. 533, station buildings at 4604 Frankford and 4679-4681 Frankford Ave.; Contract No. 534, buildings at 4270-4272 Frankford Ave., and 4269-4271 Frankford Ave., to Standard Constr. Co., 16th and Spruce St., $95,450. Noted Oct. 18.

★Dam—Anahuac, Tex.—(Official)—Trinity River Irrigation Dist. let contract building dam between Turtle Bay and Trinity Bay; also dredging channel from locks, to F. W. Lotz, Anahuac, $35,500. Noted Oct. 11.

HIGHWAY FROM LAKES TO GULF IS PROPOSED

Humboldt and a number of other towns located on the Central West Tennessee National Highway have been notified that they have been designated as a part of one of the great north and south highways, known as the Meridian Highway, and promoted by an Illinois good roads corporation, which will run from Lake Superior to Mobile. This highway has already been designated and marked from Lake Superior as far south as Pana, Ill., and the marking will be continued as rapidly as possible until completed.

Malcolm MacKinnon of Chicago, who is secretary of the Meridian Highway Association, also manager of the Chicago division of the Touring Club of America, has given out the following interview relative to this great highway:

"Completion of the marking of the Meridian highway from Lake Superior to the gulf has been arranged at a meeting of the association at Decatur, Ill., Thursday, Oct. 25. The logic behind this movement for a direct road connecting the resorts of Wisconsin and Northern Michigan with those of the gulf coast country in Alabama, Mississippi and Louisiana is appealing more and more to the people along the line. The plan provides also a direct road for travel between intermediate points.

Under the provisions of the new trunk line road law in Wisconsin and the $60,000,000 bond issue bills in Illinois, the prospect of a broad, permanent pavement in those states within a few years looks very bright indeed.

"Kentucky and Tennessee parts of the road are to be cared for with federal aid inasmuch as the state and government money has already been ordered placed in the roads south from Cairo to Corinth, Miss., by way of Fulton, Martin, Sharon, Greenfield, Trenton, Humboldt, Jackson, Henderson and Shiloh Park. This means a broad pavement across these states also.

"Mississippi is already far advanced in wonderful development in a permanent manner of the Meridian Highway from Corinth to the gulf by way of Booneville, Tupelo, Aberdeen, Meridian, Laurel, Hattiesburg and Gulfport, and a line to Mobile from Meridian by way of Citronelle, Ala., has been designated for federal aid.

"This will be the greatest north and south national highway because it will serve the most people and because it connects the two most important touring regions in the great middle part of the United States. It bisects all east and west continental roads such as the Dixie Overland at Meridian; Bankhead at Corinth; the Old National Trail at Vandalia; the Ocean to Ocean at Decatur; the Corn Belt at El Paso, the Illinois Valley Way at La Salle, the Cannon Ball and Choctaw roads at Mendota; the Lincoln Highway at Rochelle; the Grant Highway at Rockford; the National Parks and Lake to River Highways at Madison and the Yellow Stone Trail at Stevens Point.

Notable trail movements like those named are the livest things in road angitation in all the states, and these routes, now being laid out and marked, will be the great arteries of travel in the future. There are numerous local market roads which have more or less reason for being, but these big highways stand out as something different and as having a much greater significance.

SEWERS, DETROIT, MICH.

Bids were received by City, Oct. 18, for constructing brick sewer on Linwood Ave., from (A) Jaynes & Affeld, 1208 Ford Bldg.; (B) Julius Porath, 34 McGraw Bldg.; (C) Carpenter Constr. Co., 707 Ford Bldg., all of Detroit. The first totals represent the contractors estimate and the second the contractors' unit bids applied to the correct quantities. The unit bids were as follows:

Size Ft.	Size In.	A Estimated Quantity	A Unit Bid	B Estimated Quantity	B Unit Bid	C Estimated Quantity	C Unit Bid
14	0	1,795½	$87.00	1,796	$94.35	1,795.6	$100.00
11	0	29½	55.00	29	85.00	29.6	60.00
10	0	642½	50.00	642	46.40	642.5	60.00
9	9	2,201	46.00	2,201	46.40	2,201.0	55.00
9	6	626	45.50	626	42.30	626.0	45.00
9	3	1,750	44.40	1,750	41.50	1,750.0	40.00
9	0	1,788	43.36	1,788	41.00	1,788.0	40.00
7	6	2,209	35.40	2,209	36.90	2,209.0	30.00
7	0	1,637	23.00	1,637	29.40	1,637.0	28.00
6	6	83	21.60	83	28.00	83.0	25.00
5	3	887	18.00	760	18.60	887.0	20.00
5	0	1,841	17.28	1,788	18.30	1,807.0*	17.00
3	9	18	15.00	18	16.00	*	*
3	6	80	12.50	56	15.00	56.0*	12.00
2	9	28	10.40	28	15.00	28.0	10.00
5	3	.....	.....	127	25.00	.....	.....
5	0	.....	.....	53	18.00	.....	.....
3	6	.....	.....	24	16.00	.....	.....
Manholes		17	175.00	17	300.00	17.0	500.00
Extended totals,			$644,870		$666,227		$682,723

* Indicate shortages. 34 ft.–5 ft. 18 ft.–3 ft. 9 in. 24 ft.–3 ft. 6 in.

		A	B	C
14	0	1,795.6	$87.00	.....	$94.35	.....	$100.00
11	0	29.6	55.00	.....	85.00	.....	60.00
10	0	642.5	50.00	.....	46.40	.....	60.00
9	9	2,201.0	46.00	.....	46.40	.....	55.00
9	6	626.0	45.50	.....	42.30	.....	45.00
9	3	1,750.0	44.40	.....	41.50	.....	40.00
9	0	1,788.0	43.36	.....	41.00	.....	40.00
7	6	2,209.0	35.40	.....	36.90	.....	30.00
7	0	1,637.0	23.00	.....	29.40	.....	28.00
6	6	83.0	21.60	.....	28.00	.....	25.00
5	3	887	18.00	760	18.60	.....	20.00
5	0	1,841	17.28	1,788	18.30	.....	17.00
3	9	18	15.00	.....	16.00	.....	.....
3	6	80.0	12.50	56	15.00	.....	12.00
2	9	28.0	10.40	.....	15.00	.....	10.00
5	3	.....	.....	127	25.00	.....	.....
5	0	.....	.....	53	18.00	.....	.....
3	6	.....	.....	24	16.00	.....	.....
Manholes		17	175.00	.....	300.00	.....	500.00
Extended totals,			$644,884		$666,263		$683,589

PAVING AND SEWERS—LOS ANGELES, CAL.

Bids were received by City for grading and constructing bitulithic pavements, storm drains and sewers on various streets, from (A) G. H. Oswald, O. T. Johnson Bldg., (B) Fairchild-Gilmore-Wilton Co. ...acific Electric Bldg., both of Los Angeles. The unit bids were as follows:

	A	B
634,649.23 sq.ft. grading to subgrade	$0.07½	$0.09
8,144.75 sq.ft. grading to subgrade	.01½	.121
24,466.85 sq.ft. grading to finished surface in Lake St.	.08	.04
17,943.28 sq.ft. grading to finished surface in Rockwood St.	.10	.07
26,729.89 sq.ft. grading to finished surface in all other streets to be improved	.01½	.02
1,997.90 sq.ft. grading to finished surface first alley W. of Witmer St.	.08	.077
634,649.23 sq.ft. bitulithic paving	.16	.16
849.00 sq.ft. asphalt paving, including grading-x sec. 101	.17	.20
2,126.00 sq.ft. asphalt paving, including grading—special x sec.	.17	.20
8,144.75 sq.ft. concrete paving	.15	.15
69,140.02 sq.ft. cultivating, tamp. and oil	.03½	.03
24,139.42 lin.ft. cement curb "A" steel angles at returns	.40	.37
118,938.87 sq.ft. cement sidewalk	.12½	.12½
18,988.60 sq.ft. vitrified brick gutter	.40	.35
8,348.23 sq.ft. concrete gutter	.17	.20
Storm sewer and appurtenances in 1st St. from Witmer St. to Lake Shore Ave.	1,132.49	1,065.00
Storm sewer and appurtenances in Belmont Ave., 1st St. and Catalina Ave. from Rockwood St. to 2nd St.	2,394.75	2,593.00
Storm sewer and appurtenances in 2nd St. from Union Ave. to Catalina Ave.	638.48	887.00
Storm sewer and appurtenances in 1st St. from Westlake Ave. to Alvarado	1,828.39	1,721.00
Storm sewer and appurtenances in 1st St. from Reno St. to Occidental Blvd.	723.09	754.00
Storm sewer and appurtenances in 1st St. from Vendome to Dillon Sts.	709.10	695.00
Storm sewer and appurtenances in 1st St. from Commonwealth Ave. to 464.32 ft. W. of Virgil	1,314.80	1,772.00
Storm drain and appurtenances in Loma Dr. from 328.5 ft. to 236.5 ft. south of 1st St	190.90	177.00
Storm drain and appurtenances in Lake St. from 12.6 ft. N. to 26.5 ft. S. of Dartmouth St	181.75	202.00
26 catch basins, 2 junction chambers and 2 manholes and connection drains in 1st and other streets	1,608.00	2,224.00
Sanitary sewer, house connections and appurtenances in 1st St. between Loma Dr. and Colina Ave	298.88	497.00
Sanitary sewer and structures in 1st St. between Witmer St. and Loma Dr. and between Colina Ave. and Union Ave.; also in Loma Dr., Belmont Ave. and Rockwood St., including shallow flushtank and reconstruction of a manhole (house connection sewers not included)	6,397.00	6,397.00
Extended totals	$213,992	$222,622

ROAD IMPROVEMENT THROUGHOUT COUNTRY IN 1917

The millions that the Government, the states and other agencies have spent this year in good roads have not been spent in vain. Crews of fleets testing tires for the B. F. Goodrich Rubber Co. of Akron, returning from every part of the country after nine months of steady touring in which they made aproximately 5,000,000 mi.—the equivalent of girdling the globe 200 times—report that there isn't a nook or cranny today that is not accessible to the motorist, owing to the volume of road improvement. Even the desert no longer holds terrors for the automobilist with nomadic tendencies. In fact, the glistening trails across the Great American and Mojave deserts testify to greater tourist travel, perhaps, than any other two roads in the country.

Condensed, these are the principal observations of the tire testing fleets:

The Pacific Coast has the finest roads in the country, and in consequence the motorists there get more tire mileage and use less gasoline per mile than in any other region of the country.

Eastern highways are groaning under the weight of motor trucks engaged in haulage—an industry sprung into being since railroad freight congestion made the use of other conveyances imperative. Particularly is this noted between Boston and New York.

Prosperity in the farming states of the West has never been greater. There are not many farmers in the six big farming states who do not possess automobiles. All the field work is done by tractors—the horses are used in the making of new roads for the automobilist.

The 2200-mi. run from Chicago to Los Angeles is the finest pleasure run in the country. Gasoline can be had every 50 mi., and there is only one tough spot in the entire route—a 40-mi. stretch near Askfork, Ariz.

Maine is the most backward in road betterment. Along the seacost the roads are good, but in the interior one is apt to encounter much trouble.

The best single stretch of road is on the new ridge highway, built by the great oil interests for travel between Los Angeles and Bakersfield, Calif. Millions were expended in constructing this great thoroughfare.

Transcontinental travel has been greater than in any previous year, the war notwithstanding.

Stones are the worst enemies of the motorist. They bruise the fabric and deteriorate starts at once, although a "blowout" may not occur for 500 mi. afterwards.

The shallow streams crossing the Dixie highway should be bridged. The sharp pebbly bottoms cut the tread and make possible punctures. Aside from these disadvantages, found more in Georgia than in any of the other states, the highway is much improved.

The Lincoln highway between Philadelphia and New York is showing the effects of heavy traffic, it being necessary now to negotiate 7 mi. of this short run in low gear.

"On the whole there are few bad roads in the country today," said one of these bronze visaged pilots. "The war has not, contrary to expectations, lessened the volume of road building and improvement. States have been aroused to the necessity of keeping up their roads, because the better roads the greater the volume of business. There are at least 3,655,000 automobiles in this country today and every owner spends money. He will follow good roads. The more attractive the roads, the more picturesque the surroundings the greater the community's prosperity, hence the general alertness on the part of local governments.

"It doesn't take much to make a good road. Of course, asphalt, concrete, macadam and brick make the best roads ,but any road is a good road that does not have loose stones in the autoist's path. Stones, we have found, do more damage to the motorist's car than any other obstacle he will encounter. They bruise tires, destroy wheel alignment and break springs."

The West is striving to maintain its supremacy in good roads, the test tire men find, by a big campaign in 1918; North and South Dakota are getting busy and Georgia is making plans that should please the Southern tourist.

PIER, NEW YORK, N. Y.

Bids were received by W. W. Wotherspoon, supt. pub. wks., Capitol, Albany, Oct. 23, for constructing pier at foot of West 53rd St., North River, Barge Canal Contr. No. 38, from (A) I. J. Stander & Co., 118 East 28th St. (awarded contract); (B) G. P. Spearin, 90 West St.; (C) Lupfer & Remick, Ellicott Sq., Buffalo; (D) G. W. Rogers Co., 29 Bway., $299,882. The unit bids of the 3 lowest bidders were as follows:

	A	B	C
Removing old material (lump sum)	$475 00	$400 00	$480 00
60,000 lin.ft. foundation and bracing piles	46	475	54
1,400 lagged piles	78 00	74 47	80 00
170 fender piles	24 76	30 20	30 00
710 M. ft.b.m sawed lumber	79 20	83 16	86 00
180 M. ft.b.m. sawed lumber, treated	86 90	95 05	98 00
80,000 sq.ft. surface treatment of lumber	01½	015	015
524 cu.yd. 1st class reinforced concrete	14 50	14 55	11 00
1,120 cu.yd. 2nd class reinforced concrete	8 28	10 00	7 50
5,000 lb. rigid metal conduit	215	203	20
37,000 lb. iron castings	07	081	08
53,000 lb. metal reinforcement	06	079	06
284,000 lb. structural steel	085	107	088
14 spools	275 00	275 00	200 00
Extended totals	$266,065	$276,906	$278,976

PAVING—LOS ANGELES, CAL.

Bids were received by City for paving Reseda Ave. from Devonhsire St. to Ventura Blvd., from (A) Geo. H. Oswald, O. T. Johnson Bldg., (awarded contract); (B) Fred Hoffman; (C) Geo. R. Curtis, 2440 East 26th St.; (D) Johnston & Grabs, $169,504; (E) Johnson-Shea Co., Central Bank Bldg., Oakland, $169,615; (F) Rogers Bros. Co., Hibernian Bank Bldg., $201,061; (G) Tryon & Bain, 1648 West 36th, $210,949. The unit bids of the 3 lowest bidders were as follows:

	A	B	C
740,230 sq.ft. grading to sub-grade	$0 01½	$0 0095	$0 01
560,480 sq.ft. cultivating, tamping and rolling	026	02	02
740,230 sq.ft. concrete paving with bituminous protecting coat	17	16	15⅝
560,480 sq.ft. grading to sub-grade	02	0085	01
Steel and concrete culverts (lump sum)	3,750 87	2,100 00	2,000 00
Extended totals	$139,662	$143,543	$143,913

OREGON AT WORK ON 38 PROJECTS

There are 38 projects now receiving the attention of the state highway commission. These projects are in 20 different counties in Oregon. They represent $2,263,115.21 and total about 190 miles of work and 10 bridges. This work has been started since June 5. The greatest activity is in Columbia, Clatsop, Douglas and Hood River.

A survey discloses the fact that the commission is working on four trunk lines, three of which cross the state. The Columbia River Highway, an east and west cross-state road; the Pacific Highway, a north and south cross-state road, and The Dalles-California highway, a cross-state road running north and south through Central Oregon are being opened, graded and macadamized. The fourth trunk line is the Tillamook Highway.

Following are the projects as listed at the office of the commission on October 1:

Clackamas County — Pacific Highway, grading near New Era, 2½ miles, $30,873.20.

Clackamas County — Pacific Highway, paving, Oregon City to Canby, eight miles, $145,721.40.

Clatsop County—Columbia River Highway, macadamizing, Svenson to Westport, approximately 15.5 miles, $111,295.

Clatsop County—Columbia River Highway, paving, Astoria to Svenson, approximately nine miles, standard bitulithic, $199,235.33.

Columbia County—Columbia River Highway, 10 bridges, $36,959.

Columbia County—Columbia River Highway, grading, Goble section, 1.8 miles, $43,300.20.

Columbia County—Columbia River Highway, grading, Rainier hill section, 2.2 miles, $11,888.50.

Columbia County—Columbia River Highway, macadamizing, 2½ miles east of Delena school house to Goble, 5.7 miles, $35,318.60.

Columbia County—Columbia River Highway, macadamizing, Clatskanie to 2½ miles east of Delena school house, $46,530.50.

Columbia County—Columbia River Highway, grading and macadamizing, from Clatsop county line to Clatskanie, 5.3 miles, $36,474.

Columbia County—Columbia River Highway, paving from Scappoose to Multnomah county line, 2.5 miles, bitulithic, $36,667.55.

Columbia County—Columbia River Highway, macadamizing, Goble section, 2.1 miles, $11,828.

Coos County — Engineering on county work, $15,000.

Deschutes County—The Dalles-California Highway, cindering, Bend 17 miles south, $17,000.

Douglas County—Myrtle creek to Dillard, grading 10.8 miles, $173,648. Bids not advertised yet.

Douglas County—Canyon Creek Pass to Johns Place, grading, approximately 2.3 miles, $23,680.60. Bids not advertised yet.

Douglas County—Pacific Highway, Yoncalla to Oakland, grading, 10.4 miles, $94,905.74.

Douglas County—Pacific Highway, Comstock to Leona; grading and macadam, 4.6 miles, $57,946.02.

Douglas County—Pacific Highway, Lane-Douglas county line to Comstock, grading and macadam, 2.4 miles, $26,787.

Gilliam County—John Day Highway, macadamizing south of Condon to Thirty-mile creek, 5.7 miles, $20,924.

Hood River County — Columbia River Highway, Cascade Locks section, grading 8.2 miles, $105,930.

Hood River County — Columbia River Highway, Viento section, grading, 3.6 miles, $71,033.

Hood River County — Columbia River Highway, Ruthton hill section, grading, 2.4 miles, $39,988.75.

Jackson County—Pacific Highway, grading Ashland hill crossing, $10,000.

Josephine County — Pacific Highway, grading Wolf Creek hill, 4.9 miles, $83,606.50. Half of this should be federal aid. The project must be carried through even though the government does not help.

Josephine County — Pacific Highway, Locus Hill section, grading one mile, $4700.

Klamath County — Olene to Klamath Falls, grading and macadamizing, 10 miles, $36,000.

Lake County — The Dalles-California Highway, macadamizing Lakeview and Paisley, three miles, $15,000.

Lake County—Pacific Highway, macadamizing south county line five miles into Lane County, $5000.

Lincoln County—Pioneer mountain road, Corvallis to Newport, grading one mile, $2000.

Tillamook County — Yamhill-Nestucca road, paving starting at old paving three miles south of Tillamook City and continuing south five miles, bitulithic, $110,644.60.

Umatilla County—Columbia River Highway, paving east from Pendleton, 11 miles, bitulithic, $147,000.

Wasco County — Columbia River Highway, rocking from The Dalles, 10 miles east, $10,000.

Washington and Yamhill Counties—West Side Pacific Highway, paving from Multnomah county line to Newberg, 15.3 miles, bitulithic, $339,488.48.

Wheeler County — John Day Highway, grading Cumming's Hill section and one additional mile, 3.5 miles, $10,527.20.

Yamhill County—Yamhill-Nestucca road, paving from city limits of Sheridan east three miles, $35,660.70.